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Monsanto Research Corp, Dayton, OH

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16. ABSTRACT

The report alphabetically lists stationary sources that emit criteria pollutants. The overview matrix was prepared using a computerized data base established for emissions of air pollutants from approximately 800 stationary source types in the combustion, organic materials, inorganic materials, and open source categories. The matrix lists the total national emissions of criteria pollutants emitted by source type. (A source type is defined as a group of emission sources which have the same process and emission characteristics.)

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Source Assessment:
Overview Matrix for National Criteria Pollutant Emissions (1978)

by

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Office of Research and Development
Washington, DC 20460

PREFACE

The Industrial Environmental Research Laboratory (IERL) of the U.S. Environmental Protection Agency (EPA) has the responsibility for insuring that pollution control technology is available for stationary sources to meet the requirements of the Clean Air Act, the Federal Water Pollution Control Act, and solid waste legislation. If control technology is unavailable, inadequate, or uneconomical, then financial support is provided for the development of the needed control techniques for industrial and extractive process industries. The Chemical Processes Branch of the Industrial Processes Division of IERL has the responsibility for investing tax dollars in programs to develop control technology for a large number of operations (more than 500) in the chemical industries.

Monsanto Research Corporation (MRC) has contracted with EPA to investigate the environmental impact of various industries which represent sources of pollution in accordance with EPA's responsibility as outlined above. Dr. Robert C. Binning serves as MRC Program Manager in this overall program entitled "Source Assessment", which includes the investigation of sources in each of four categories: combustion, organic materials, inorganic materials, and open sources. Dr. Dale A. Denny of the Industrial Processes Division at Research Triangle Park serves as EPA Project Officer. Reports prepared in this program are of three types: Source Assessment Documents, State-of-the-Art Reports, and Special Project Reports.

Source Assessment Documents contain data on emissions from specific industries. Such data are gathered from the literature, government agencies, and cooperating companies. Sampling and analysis are also performed by the contractor when the available information does not adequately characterize the source emissions. These documents contain all of the information necessary for IERL to decide whether emissions reduction is required.

State-of-the-Art Reports include data on emissions from specific industries which are also gathered from the literature, government agencies, and cooperating companies. However, no extensive sampling is conducted by the contractor for such industries. Results from such studies are published as State-of-the-Art Reports for potential utility by the government, industry, and others having specific needs and interests.

Special projects provide specific information or services which are applicable to a number of source types or have special utility to EPA but are not part of a particular source assessment study. This special project report, "Source Assessment: Overview Matrix for National Criteria Pollutant Emissions", was prepared to provide an updated alphabetical listing of stationary sources that emit criteria pollutants. A similar listing was generated and published earlier.

ABSTRACT

This report provides an overview matrix or alphabetical listing of stationary sources that emit criteria pollutants. The matrix shows the relative importance of source types in terms of their effect on the total national emissions burden and overall ambient air quality. A source type is defined as a group of emission sources which have the same process and emission characteristics.

The overview matrix was prepared using a computerized data base established for emissions of air pollutants from approximately 800 stationary source types in the combustion, organic materials, inorganic materials, and open source categories. Emissions included in the data base consist of criteria pollutants (i.e., particulates, sulfur dioxide, nitrogen oxides, hydrocarbons, and carbon monoxide) and noncriteria pollutants (such as trace metals and polycyclic organic matter). The data base is updated continuously to incorporate related new findings and covers a large number of source types; however, it is not an exhaustive list of all stationary emission points in the United States.

This report was submitted in partial fulfillment of Contract 68-02-1874 by Monsanto Research Corporation under the sponsorship of the U.S. Environmental Protection Agency. This updated listing is similar to those generated for internal EPA use in July 1975, July 1976, and September 1976, and it supersedes a document of the same title published in July 1977 (EPA-600/2-77-107c). This report was prepared during the period April - July 1978.

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SYMBOLS

C	-- code number which identifies the source category
CO	-- carbon monoxide
HC	-- hydrocarbons
NOX	-- nitrogen oxides
PART	-- particulates
SO2	-- sulfur dioxide

SECTION 1

INTRODUCTION

During the performance of the Source Assessment Program for EPA on Contract 68-02-1874, a computerized data base was established for emissions of air pollutants from approximately 800 stationary source types in the combustion, organic materials, inorganic materials, and open source categories. A source type is defined as a group of emission sources which have the same process and emission characteristics; e.g., rubber processing, beef cattle feedlots, etc. Emissions included in the data base consist of criteria pollutants (i.e., particulates, sulfur dioxide, nitrogen oxides, hydrocarbons, and carbon monoxide) and noncriteria pollutants (such as trace metals and polycyclic organic matter).

The data base is updated continously to incorporate related new findings from the investigation of individual emission source types on this program. Although the data base covers a large number of source types, it is not an exhaustive list of all stationary emission points in the United States. The source list was selected to cover over 90% of the emissions in those areas under the original jurisdiction of EPA's Chemical Processes Branch at IERL-RTP. In other areas, such as metallurgical processes, some additional source types were later added to the data base to provide a better coverage of national emissions. However, this coverage is by no means as complete as that for the four categories selected for intensive study.

Using the above computerized data base, this overview matrix was prepared to provide an alphabetical listing of stationary source types and their national total emissions of criteria pollutants. The matrix shows the relative importance of source types in terms of their effect on the total national emissions burden and overall ambient air quality. A detailed state-by-state listing of stationary emission sources which emit at least 1% of each state's total mass emissions of any criteria pollutant is given in a separate report entitled "Source Assessment: State-by-State Listing of Criteria Pollutant Emissions". Mass emissions of noncriteria pollutants from various stationary sources are given in a separate report entitled "Source Assessment: Noncriteria Pollutant Emissions".

The following explanatory remarks are provided for this report:

1. All emissions are expressed as 10^3 kg/yr (metric ton/yr).

2. Every computer-printed page lists criteria as PART (particulates), SO2 (sulfur dioxide), NOX (nitrogen oxides reported as NO_2), HC (hydrocarbons), and CO (carbon monoxide).

3. The last column, designated C, identifies the source category as follows:

Code	Category
1	Combustion Sources
2	Organic Materials Sources
3	Inorganic Materials Sources
4	Open Sources

4. The national emission totals for all the criteria pollutants are listed both as calculated from our computerized data base and as obtained from the National Emissions Data System (NEDS)(1), which includes mobile as well as stationary sources. The totals have been adjusted to include New York point sources, forest wild fires, agricultural open burning, structural fires, coal refuse fires, and metallurgical processing.

5. Line one for each source type shows the annual mass of emissions of each criteria pollutant. Line two shows the percent contribution of each source type to the total amount of each criteria pollutant emitted from all stationary sources (i.e., as reported in our computerized data base). Line three shows the percent contribution to emissions from both stationary and mobile sources (i.e., NEDS).

6. All emissions data are rounded to four significant figures; percentages are rounded to three significant figures.

7. For source types that emit less than 100 kg of each criteria pollutant, dashes (--) are shown for all emissions.

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(1) National Emissions Report, 1972. EPA-450/2-74-012, U.S. Environmental Protection Agency, Research Triangle Park, North Carolina, June 1974. 422 pp.

8. Hydrocarbon totals for each source type include unnamed hydrocarbons and all named nonmethane organic materials.

9. Particulates are the only criteria pollutant considered in this overview matrix for open sources. When that column is blank, it indicates that no particulates are emitted.

10. The overview matrix presented in this report is based on the data base contents as of 1 July 1978.

Example:

Coke manufacture emits the following amounts of criteria pollutants:

Particulates:	$218{,}200 \times 10^3$ kg/yr
SO_2:	$161{,}700 \times 10^3$ kg/yr
NO_x:	$1{,}581 \times 10^3$ kg/yr
Hydrocarbons:	$167{,}600 \times 10^3$ kg/yr
Carbon monoxide:	$50{,}200 \times 10^3$ kg/yr

Criteria pollutants emitted by coke manufacture contribute the following portions of the total amounts of such pollutants emitted from all stationary sources in the United States (as contained in the data base):

Particulates:	0.174%
SO_2:	0.704%
NO_x:	0.0149%
Hydrocarbons:	1.44%
Carbon monoxide:	0.0563%

Criteria pollutants emitted by coke manufacture contribute the following portions of the total amounts of such pollutants emitted from stationary and mobile sources in the United States (as contained in NEDS):

Particulates:	1.22%
SO_2:	0.537%
NO_x:	0.00707%
Hydrocarbons:	0.664%
Carbon monoxide:	0.0516%

SECTION 2

OVERVIEW MATRIX FOR NATIONAL CRITERIA POLLUTANT EMISSIONS

Data from NEDS and the following reference sources are included in the data base which was used to generate the overview matrix:

Journals

Chemical Abstracts
Chemical and Engineering News
Chemical and Process Engineering
Chemical Engineering
Chemical Engineering Progress
Chemical Engineering Science
Chemical Marketing Reporter
Chemical Technology
Chemical Week
Engineering Index
Environment
Environmental Science and Technology
Hydrocarbon Processing
Industrial and Engineering Chemistry
Journal of the Air Pollution Control Association
Journal of the American Chemical Society
Journal of the Chemical Society (London)
Journal of Organic Chemistry
Journal of Physical Chemistry
Journal of the Water Pollution Control Association
Modern Physics
Oil and Gas Journal
Pollution Abstracts

Books, Manuals, Reports

Air Pollution Engineering Manual, Second Edition, J. A. Danielson, ed. Publication No. AP-40, U.S. Environmental Protection Agency, Research Triangle Park, North Carolina, May 1973. 987 pp.

Chemical Engineer's Handbook, Fifth Edition. J. H. Perry and C. H. Chilton, eds. McGraw-Hill Book Company, New York, New York, 1973.

Compilation of Air Pollutant Emission Factors. Publication No. AP-42, U.S. Environmental Protection Agency, Research Triangle Park, North Carolina, March 1975.

Pervier, J. W., R. C. Barley, et al. Survey Reports on Atmospheric Emissions from the Petrochemical Industry, Volumes I-IV. EPA-450/3-73-005a-d, U.S. Environmental Protection Agency, Research Triangle Park, North Carolina, April 1974.

Kirk-Othmer Encyclopedia of Chemical Technology, Second Edition, Volumes 1-22. John Wiley & Sons, Inc., New York, New York, 1969.

OVERVIEW MATRIX FOR AIR POLLUTION SOURCES

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
ABRASIVE PRODUCTS	2580.0 0.00206 0.01440	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
ABRASIVE CLEANING OF OUTDOOR STRUCTURES	8092.0 0.00646 0.04510					4
ACETALDEHYDE - HYDRATION OF ETHYLENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	19490.0 0.16800 0.07720	0.0 0.00000 0.00000	2
ACETALDEHYDE - OXIDATION OF ETHANOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	327.5 0.00037 0.00034	2
ACETIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2980.0 0.02560 0.01180	613.5 0.00069 0.00063	2
ACETIC ANHYDRIDE	4.0 0.00000 0.00002	0.0 0.00000 0.00000	0.0 0.00000 0.00000	8029.0 0.06910 0.03180	14230.0 0.01600 0.01468	2
ACETIC ACID - FROM METHANOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	5.2 0.00005 0.00002	1293.0 0.01110 0.00512	0.0 0.00000 0.00000	2
ACETIC ACID - FROM BUTANE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2936.0 0.02530 0.01160	916.1 0.00103 0.00094	2
ACETONE AND PHENOL FROM CUMENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	5313.0 0.04570 0.02100	0.0 0.00000 0.00000	2
ACETONE - FROM ISOPROPANOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2813.0 0.02420 0.01110	0.0 0.00000 0.00000	2
ACETONE CYANOHYDRIN	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	136.1 0.00117 0.00054	0.0 0.00000 0.00000	2
ACETYLENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	738.2 0.00697 0.00330	351.5 0.00303 0.00139	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
ACETYL CHLORIDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	18.1 0.00016 0.00007	0.0 0.00000 0.00000	2
ACROLEIN	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1865.0 0.01610 0.00739	1840.0 0.00206 0.00189	2
ACRYLONITRILE	0.0 0.00000 0.00000	15.0 0.00007 0.00005	473.0 0.00447 0.00212	56090.0 0.48300 0.22200	68200.0 0.07650 0.07010	2
ACRYLIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	76.8 0.00072 0.00034	65.8 0.00057 0.00026	76.8 0.00009 0.00008	2
ACRYLONITRILE - BUTADIENE - STYRENE RESIN	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	4.7 0.00004 0.00002	0.0 0.00000 0.00000	2
ADIPIC ACID	533.2 0.00042 0.00297	0.0 0.00000 0.00000	3554.0 0.03360 0.01590	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
ADIPONITRILE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	4715.0 0.04060 0.01870	0.0 0.00000 0.00000	2
AEROSOL PROPELLANTS	--	--	--	--	--	2
AGRICULTURAL OPEN BURNING	115000.0 0.09170 0.64000	0.0 0.00000 0.00000	13520.0 0.12800 0.06050	135200.0 1.16000 0.53600	676200.0 0.75800 0.69500	1
AGRICULTURAL TILLING	5500000.0 4.39000 21.30000					4
ALACHLOR	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.3 0.00000 0.00000	0.0 0.00000 0.00000	2
ALCOHOL SULFATES - AMMONIUM SALT	0.4 0.00000 0.00000	0.9 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
ALCOHOL SULFATE - SODIUM SALT	0.7 0.00000 0.00000	1.7 0.00001 0.00001	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
ALCOHOL SULFATES - TRIETHANOLAMINE SALT	0.3 0.00000 0.00000	0.7 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
ALDICARB	1.1 0.00000 0.00001	464.9 0.00202 0.00154	0.0 0.00000 0.00000	3.4 0.00003 0.00001	0.0 0.00000 0.00000	2
ALKALI AND CHLORINE PLANT WASTES						
ALKYD RESINS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	407.8 0.00351 0.00162	0.0 0.00000 0.00000	2
ALLYL CHLORIDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	7.1 0.00006 0.00003	0.0 0.00000 0.00000	2
ALLYL ALCOHOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2.7 0.00002 0.00001	0.0 0.00000 0.00000	2
ALUMINUM SULFATE	1204.0 0.00096 0.00671	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
ALUMINUM CHLORIDE - ANHYDROUS	30.3 0.00002 0.00017	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
ALUMINUM HYDROXIDE	480.2 0.00038 0.00267	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
ALUMINUM FLUORIDE	--	--	--	--	--	3
ALUMINUM OXIDE - ALUMINA	56260.0 0.04490 0.31300	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
AMINO RESINS	579.1 0.00046 0.00323	772.2 0.00336 0.00256	772.2 0.00729 0.00345	1544.0 0.01330 0.00612	0.0 0.00000 0.00000	2
AMMONIA	2048.0 0.00163 0.01140	3338.0 0.01450 0.01110	43990.0 0.41600 0.19700	16690.0 0.14400 0.06610	14410.0 0.01620 0.01480	3

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING					
	PART	SO2	NOX	HC	CO	C
AMMONIUM NITRATE	16670.0 0.01510 0.10500	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
AMMONIUM PHOSPHATES	10230.0 0.00816 0.05700	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
AMMONIUM ACETATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2.7 0.00002 0.00001	0.0 0.00000 0.00000	2
AMMONIUM BENZOATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
AMMONIUM CITRATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.5 0.00000 0.00000	0.0 0.00000 0.00000	2
AMMONIUM FORMATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.4 0.00000 0.00000	0.0 0.00000 0.00000	2
AMMONIUM GLUTONATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.1 0.00000 0.00000	0.0 0.00000 0.00000	2
AMMONIUM OXALATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.5 0.00000 0.00000	0.0 0.00000 0.00000	2
AMMONIUM TARTRATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.2 0.00000 0.00000	0.0 0.00000 0.00000	2
AMMONIUM THIOCYANATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.3 0.00000 0.00000	0.0 0.00000 0.00000	2
AMMONIUM SULFATE	10960.0 0.00875 0.06110	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
AMYL ACETATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.5 0.00000 0.00000	0.0 0.00000 0.00000	2
ANILINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	97.9 0.00084 0.00039	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
ANTHELMINTICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	8.8 0.00008 0.00003	0.0 0.00000 0.00000	2
ANTIMONY OXIDE	0.8 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
ARSENIC TRIOXIDE	9.1 0.00001 0.00005	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
ARTIFICIAL RIPENING OF FRUITS AND VEGETABLES	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	544.3 0.00469 0.00216	0.0 0.00000 0.00000	2
ASBESTOS PRODUCTS	486.1 0.00039 0.00271	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
ASBESTOS PROCESSING AREA	31.5 0.00003 0.00018					4
ASCORBIC ACID - VITAMIN C	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	10.5 0.00009 0.00004	0.0 0.00000 0.00000	2
ASPHALT ROOFING	23110.0 0.01840 0.12900	0.0 0.00000 0.00000	0.0 0.00000 0.00000	6410.0 0.05520 0.02540	3837.0 0.00430 0.00394	2
ASPHALT PAVING - HOT MIX	40290.0 0.03210 0.22400	9551.0 0.04160 0.03170	5372.0 0.05070 0.02400	7167.0 0.06170 0.02840	5671.0 0.00636 0.00583	2
ASPHALT PAVING - DRYER DRUM PROCESS	1361.0 0.00109 0.00758	290.3 0.00126 0.00096	163.3 0.00154 0.00073	254.1 0.00219 0.00101	172.4 0.00019 0.00018	2
ASPIRIN	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	29.5 0.00025 0.00012	0.0 0.00000 0.00000	2
ATRAZINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	74.8 0.00064 0.00030	0.0 0.00000 0.00000	2
AUTOBODY INCINERATION	260.4 0.00021 0.00145	0.0 0.00000 0.00000	13.0 0.00012 0.00006	65.1 0.00056 0.00026	325.5 0.00036 0.00033	1

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
AZINOPHOS - ETHYL	0.7 0.00000 0.00000	0.2 0.00000 0.00000	0.2 0.00000 0.00000	1.0 0.00001 0.00000	0.0 0.00000 0.00000	2
AZINOPHOS - METHYL	0.9 0.00000 0.00001	0.3 0.00000 0.00000	0.2 0.00000 0.00000	1.4 0.00001 0.00001	0.0 0.00000 0.00000	2
BACILLUS THURINGIENSIS	0.5 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
BARITE MILLING	3667.0 0.00293 0.01640					4
BARITE TRANSPORT	15.0 0.00001 0.00007					4
BARITE STORAGE	22.4 0.00002 0.00011					4
BARIUM CHEMS - CARBONATE,CHLORIDE,HYDROXIDE,SULFATE,SULFIDE	907.2 0.00072 0.00505	7258.0 0.03160 0.02410	134.3 0.00127 0.00060	105.2 0.00091 0.00042	616.9 0.00069 0.00063	3
BEEF CATTLE FEEDLOTS	204400.0 0.16300 1.14000					4
BENEFIN	1.3 0.00000 0.00001	1.7 0.00001 0.00001	1.3 0.00001 0.00001	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
BENZENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	10770.0 0.10200 0.04820	5126.0 0.04410 0.02030	0.0 0.00000 0.00000	2
BENZOIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	210.7 0.00181 0.00083	0.0 0.00000 0.00000	2
BENZONITRILE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.3 0.00000 0.00000	0.0 0.00000 0.00000	2
BENZOYL CHLORIDE	0.0 0.00000 0.00000	1.4 0.00001 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING					
	PART	SO2	NOX	HC	CO	C
BENZYL CHLORIDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	72.8 0.00063 0.00029	0.0 0.00000 0.00000	2
BERYLLIUM COMPOUNDS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
BISPHENOL-A	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	295.7 0.00255 0.00117	0.0 0.00000 0.00000	2
BLASTING OF SULFUR STORAGE PILES	34040.0 0.02720 0.14900					4
BORIC ACID AND BORAX - SODIUM TETRABORATE	2177.0 0.00174 0.01210	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
BRAKE SHOE DEBONDING	6.1 0.00000 0.00003	2.2 0.00001 0.00001	0.2 0.00000 0.00000	0.4 0.00000 0.00000	4.9 0.00001 0.00001	1
BRASS AND BRONZE INGOT PRODUCTION	1372.0 0.00109 0.00764	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
BREAKING AND SCUTCHING FLAX FIBRES	21.4 0.00002 0.00012	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
BROMACIL	2336.0 0.00186 0.01300	141700.0 0.61600 0.47000	8680.0 0.08200 0.03860	9734.0 0.08380 0.03860	0.0 0.00000 0.00000	3
BROMINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2.7 0.00002 0.00001	0.0 0.00000 0.00000	2
BRUCINE ALKALOID	--	--	--	--	--	3
BUILDING DEMOLITION	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
	47890.0 0.03820 0.26700					4

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
BUTACHLOR	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	6.8 0.00006 0.00003	0.0 0.00000 0.00000	2
BUTADIENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	20930.0 0.18000 0.08290	0.0 0.00000 0.00000	2
2-BUTOXYETHANOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	37.8 0.00032 0.00015	0.0 0.00000 0.00000	2
S-BUTYL ALCOHOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1502.0 0.01290 0.00595	0.0 0.00000 0.00000	2
BUTYLENE DIMER - DIISOBUTYLENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	10.2 0.00009 0.00004	0.0 0.00000 0.00000	2
N-BUTYL ACRYLATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	72.6 0.00062 0.00029	0.0 0.00000 0.00000	2
BUTYL RUBBER	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1037.0 0.00893 0.00411	0.0 0.00000 0.00000	2
BUTYL OCTYL PHTHALATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	5.4 0.00005 0.00002	0.0 0.00000 0.00000	2
T-BUTYL ALCOHOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	21.8 0.00019 0.00009	0.0 0.00000 0.00000	2
BUTYLAMINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	9.1 0.00004 0.00002	0.0 0.00000 0.00000	2
N-BUTYL ACETATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	36.8 0.00032 0.00015	0.0 0.00000 0.00000	2
N-BUTYL ALCOHOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	569.8 0.00490 0.00226	17520.0 0.01940 0.01760	2
BUTYLATE	1.8 0.00000 0.00001	743.9 0.00324 0.00247	0.0 0.00000 0.00000	5.4 0.00005 0.00002	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
N-BUTYRALDEHYDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	814.4 0.00701 0.00323	1629.0 0.00183 0.00167	2
N-BUTYRIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.5 0.00000 0.00000	0.0 0.00000 0.00000	2
CACODYLIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.5 0.00001 0.00001	0.0 0.00000 0.00000	2
CADMIUM PIGMENTS - CADMIUM SULFIDE, SULFOSELENIDE, LITHOPONE	37.1 0.00003 0.00021	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
CALCIUM ACID METHANEARSONATE	--	--	--	--	--	2
CALCIUM CARBONATE	300.5 0.00024 0.00167	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
CALCIUM CHLORIDE	6892.0 0.00550 0.03840	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
CALCIUM CARBIDE	12160.0 0.00970 0.06780	1106.0 0.00461 0.00367	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
CALCIUM ARSENATE	--	--	--	--	--	3
CALCIUM PHOSPHATE	807.4 0.00064 0.00450	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
CAPROLACTAM	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	155.1 0.00134 0.00061	0.0 0.00000 0.00000	2
CAPTAN	0.6 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	9.1 0.00008 0.00004	0.0 0.00000 0.00000	2
CAPTAFOL	0.1 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.4 0.00001 0.00001	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
CARBARYL	13.1 0.00001 0.00007	0.0 0.00000 0.00000	0.0 0.00000 0.00000	39.5 0.00034 0.00016	0.0 0.00000 0.00000	2
CARBON BLACK - FURNACE	1011.0 0.00081 0.00563	342.1 0.00149 0.00114	1339.8 0.01260 0.00599	70200.0 0.60403 0.27800	2082000.0 2.33000 2.14000	2
CARBONIZING WOOL FIBRES	--	--	--	--	--	2
CARBON BLACK - THERMAL	0.0 0.00000 0.00000	10.9 0.00005 0.00004	28.5 0.00027 0.00013	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
CARBON TETRACHLORIDE - METHANE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	7966.0 0.06860 0.03160	0.0 0.00000 0.00000	2
CARBON TETRACHLORIDE - CHLORINATION OF PROPANE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	4128.0 0.03550 0.01640	0.0 0.00000 0.00000	2
CARBON DISULFIDE	111.0 0.00009 0.00062	1659.0 0.00722 0.00551	48.6 0.00046 0.00022	55.5 0.00048 0.00022	0.0 0.00000 0.00000	2
CARBOFURAN	2.3 0.00000 0.00001	0.0 0.00000 0.00000	0.0 0.00000 0.00000	6.8 0.00006 0.00003	0.0 0.00000 0.00000	2
CARBON TETRACHLORIDE - CARBON DISULFIDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	4253.0 0.03660 0.01690	0.0 0.00000 0.00000	2
CARDING ASBESTOS FIBRES	27.5 0.00002 0.00015	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
CARDING OF COTTON FIBRES	1408.0 0.00112 0.00784	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
CARDING WOOL FIBRES	1793.0 0.00143 0.00998	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
CARPET DYEING AND DRYING COTTON	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.9 0.00001 0.00000	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING					
	PART	SO2	NOX	HC	CO	C
CARPET BACKING - COTTON	0.7 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
CARPET BACKING - FLAX	1.6 0.00000 0.00001	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
CARPET DYEING AND DRYING FLAX	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.0 0.00001 0.00000	0.0 0.00000 0.00000	2
CARPET DYEING AND DRYING NATURAL POLYMER FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.8 0.00002 0.00001	0.0 0.00000 0.00000	2
CARPET DYEING AND DRYING RAYON FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	9.1 0.00006 0.00004	0.0 0.00000 0.00000	2
CARPET DYEING AND DRYING WOOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	12.9 0.00011 0.00005	0.0 0.00000 0.00000	2
CARPET BACKING SYNTHETIC POLYMERS	62.9 0.00005 0.00035	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
CARPET DYEING AND DRYING SYNTHETIC POLYMERS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	271.2 0.00233 0.00107	0.0 0.00000 0.00000	2
CATECHOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.1 0.00001 0.00000	0.0 0.00000 0.00000	2
CDEC	0.2 0.00000 0.00000	74.4 0.00032 0.00025	0.0 0.00000 0.00000	0.5 0.00000 0.00000	0.0 0.00000 0.00000	2
CELLULOSE ACETATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1898.0 0.01630 0.00752	0.0 0.00000 0.00000	2
CEMENT	878000.0 0.70000 4.89000	741000.0 3.22000 2.46000	91310.0 0.86200 0.40800	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
CHARCOAL MANUFACTURE	17690.0 0.01410 0.09850	0.0 0.00000 0.00000	32430.0 0.30600 0.14500	0.0 0.00000 0.00000	38330.0 0.04300 0.03940	1

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
CHLOROFORM	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2150.0 0.01850 0.00852	0.0 0.00000 0.00000	2
CHLOROBENZENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	101.9 0.00088 0.00040	0.0 0.00000 0.00000	2
CHLOROACETIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	45.7 0.00039 0.00018	0.0 0.00000 0.00000	2
CHLOROPHENOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	12.7 0.00011 0.00005	0.0 0.00000 0.00000	2
CHLORDANE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	6.8 0.00006 0.00003	0.0 0.00000 0.00000	2
CHLOROSULFONIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	70.5 0.00061 0.00028	0.0 0.00000 0.00000	2
CHLOROTRIFLUORO METHANE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	5.4 0.00005 0.00002	0.0 0.00000 0.00000	2
CHLORAMBEN	--	--	--	--	--	2
CHLORPYRIFOS	1.1 0.00000 0.00001	464.9 0.00202 0.00154	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
CHLOROSULFONIC ACID + INORGANIC ACIDS	--	--	--	--	--	3
CHLORINATION OF SWIMMING POOLS						
CHOLINE CHLORIDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	31.6 0.00027 0.00012	0.0 0.00000 0.00000	2
CHROMIUM COMPOUNDS - ACETATE, BORIDES, HALIDES, ETC.	0.1 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
CHROMIUM OXIDE - INORGANIC PIGMENT	0.3 0.00000 0.00000	5.6 0.00002 0.00002	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
CHROMIC ACID	1.2 0.00000 0.00001	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
CLAY PROCESSING AREA	39050.0 0.03120 0.13400					4
CLAY SILOS - KAOLIN	5297.0 0.00423 0.02650					4
COAL REFUSE PILES, OUTCROPS AND ABANDONED MINES	99730.0 0.07960 0.55600	183600.0 0.79900 0.60900	30590.0 0.28900 0.13700	61180.0 0.52700 0.24200	305900.0 0.34300 0.31400	1
COAL CLEANING PLANTS - THERMAL DRYING	7244.0 0.00578 0.04040	241.5 0.00105 0.00080	2415.0 0.02280 0.01080	2415.0 0.02080 0.00957	2415.0 0.00271 0.00248	3
COAL CLEANING PLANTS - PNEUMATIC	922.6 0.00074 0.00514	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
COAL TRANSPORT	32560.0 0.02600 0.18100					4
COAL ASH DISPOSAL	635.8 0.00051 0.00354					4
COAL CONVEYING	2505.0 0.00200 0.01400					4
COAL STORAGE	497.8 0.00040 0.00251					4
COAL FINES DISPOSAL	80150.0 0.06390 0.34000					4
COBALT COMPOUNDS - ACETATE, CARBONATE, HALIDES, ETC.	8.5 0.00001 0.00005	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING					
	PART	SO2	NOX	HC	CO	C
COFFEE ROASTING	6802.0 0.00479 0.03340	0.0 0.00000 0.00000	0.0 0.00000 0.00000	16660.0 0.14300 0.06600	0.0 0.00000 0.00000	2
COKE MANUFACTURE	218200.0 0.17400 1.22000	161700.0 0.70400 0.53700	1581.0 0.01490 0.00707	167600.0 1.44000 0.66400	50200.0 0.05630 0.05160	3
COMBING ASBESTOS FIBRES	27.5 0.00002 0.00015	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
COMBING OF COTTON FIBRES	172.3 0.00014 0.00096	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
COMBING FLAX FIBRES	3.6 0.00000 0.00002	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
COMBING WOOL FIBRES	1403.0 0.00112 0.00781	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
COMMERCIAL/INSTITUTIONAL EXT COMB BITUMINOUS PULV DRY BOTH	544.8 0.00043 0.00303	38090.0 0.16600 0.12600	2540.0 0.02400 0.01140	1180.0 0.01020 0.00467	4178.0 0.00468 0.00429	1
COMMERCIAL/INSTITUTIONAL EXT COMB BITUMINOUS PULV WET BOTH	4058.0 0.00324 0.02260	1777.0 0.00774 0.00590	118.5 0.00112 0.00053	56.8 0.00049 0.00022	19.4 0.00002 0.00002	1
COMMERCIAL/INSTITUTIONAL EXT COMB BITUMINOUS STOKER	45320.0 0.03620 0.25200	154200.0 0.67100 0.51200	9986.0 0.09430 0.04470	4904.0 0.04220 0.01940	16350.0 0.01830 0.01680	1
COMMERCIAL/INSTITUTIONAL EXT COMB ANTHRACITE STOKER	19060.0 0.01520 0.10600	18110.0 0.07880 0.06010	14560.0 0.13800 0.06510	190.6 0.00164 0.00075	1906.0 0.00214 0.00196	1
COMMERCIAL/INSTITUTIONAL EXT COMB RESID OIL TANG FIRE	661.5 0.00053 0.00368	8603.0 0.03740 0.02860	1180.0 0.01110 0.00528	86.0 0.00074 0.00034	118.0 0.00013 0.00012	1
COMMERCIAL/INSTITUTIONAL EXT COMB RESID OIL OTHER	82680.0 0.06600 0.46100	1090000.0 4.74000 3.62000	290300.0 2.74000 1.30000	10900.0 0.09380 0.04320	14500.0 0.01630 0.01490	1
COMMERCIAL/INSTITUTIONAL EXT COMB DIST OIL TANG FIRE	535.8 0.00043 0.00298	1179.0 0.00513 0.00392	1453.0 0.01370 0.00650	109.0 0.00094 0.00043	145.3 0.00016 0.00015	1

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
COMMERCIAL/INSTITUTIONAL EXT COMB DIST OIL OTHER	52670.0 0.04200 0.29300	117900.0 0.51300 0.39100	281100.0 2.66000 1.26000	10885.0 0.09370 0.04310	14510.0 0.01630 0.01490	1
COMMERCIAL/INSTITUTIONAL EXT COMB GAS TANG FIRE	353.9 0.00028 0.00197	21.8 0.00009 0.00007	4262.0 0.04020 0.01910	281.2 0.00242 0.00111	734.4 0.00082 0.00075	1
COMMERCIAL/INSTITUTIONAL EXT COMB GAS O HER	7892.0 0.00638 0.04400	499.1 0.00213 0.00163	95060.0 0.89600 0.42500	6261.0 0.05390 0.02480	16510.0 0.01830 0.01680	1
COMMERCIAL/INSTITUTIONAL INT COMB DIST OIL	1784.0 0.00142 0.00994	2292.0 0.00998 0.00761	21250.0 0.20100 0.09510	1442.0 0.01240 0.00571	3826.0 0.00427 0.00393	1
COMMERCIAL/INSTITUTIONAL INT COMB GAS	0.0 0.00000 0.00000	0.6 0.00000 0.00000	6887.0 0.06490 0.03080	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1
CONSTRUCTION ACTIVITIES	3414000.0 2.72000 19.00000					4
CONVERSION OF CRUDE IODINE TO RESUBLIMED AND IODINE PRODUCTS	--	--	--	--	--	3
CONVEYING OF SAND AND GRAVEL	4171.0 0.00333 0.01600					4
COPPER SULFATE - PENTAHYDRATE	34.5 0.00003 0.00019	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
COTTONSEED OIL MILLING	6164.0 0.00492 0.03430	0.0 0.00000 0.00000	0.0 0.00000 0.00000	10270.0 0.08840 0.04070	0.0 0.00000 0.00000	2
COTTON GINS	7254.0 0.00579 0.04040	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
COTTON HARVESTING	221.6 0.00018 0.00123					4
COVERED WIRE INCINERATION	1089.0 0.00087 0.00606	0.0 0.00000 0.00000	54.4 0.00051 0.00024	272.2 0.00234 0.00108	1361.0 0.00153 0.00140	1

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
M-CRESOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	22.0 0.00021 0.00010	10.5 0.00009 0.00004	0.0 0.00000 0.00000	2
CRESOL - SYNTHETIC	131.3 0.00010 0.00073	0.0 0.00000 0.00000	109.4 0.00103 0.00049	1094.0 0.00942 0.00433	350.0 0.00039 0.00036	2
CRESYLIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	255.3 0.00241 0.00114	121.6 0.00105 0.00048	0.0 0.00000 0.00000	2
CRESYLDIPHENYL PHOSPHATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3.3 0.00003 0.00001	0.0 0.00000 0.00000	2
CROTONALDEHYDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	4.5 0.00004 0.00002	0.0 0.00000 0.00000	2
CRUDE IODINE - DOMESTIC PRODUCTION	--	--	--	--	--	3
CRUSHED SANDSTONE	838.8 0.00067 0.00467					4
CRUSHED GRANITE	10580.0 0.00844 0.05890					4
CRUSHED STONE/TRAPROCK	3051.0 0.00243 0.01700					4
CRUSHED LIMESTONE	2137.0 0.00170 0.01190					4
CRUSHING, SIZING OF SAND AND GRAVEL	37540.0 0.03000 0.14400					4
CUMENE	573.8 0.00046 0.00320	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1721.0 0.01480 0.00682	0.0 0.00000 0.00000	2
CUMENE SULFONATE - AMMONIUM SALT	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	4.5 0.00004 0.00002	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
CUMENE SULFONIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	4.4 0.00004 0.00002	0.0 0.00000 0.00000	2
CYCLOHEXANONE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	31240.0 0.26900 0.12400	34580.0 0.03880 0.03550	2
CYCLOHEXYLAMINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3.7 0.00003 0.00001	0.0 0.00000 0.00000	2
1,5-CYCLOOCTADIENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	13.6 0.00012 0.00005	0.0 0.00000 0.00000	2
CYCLOHEXANE	0.0 0.00000 0.00000	775.2 0.00337 0.00257	0.0 0.00000 0.00000	7752.0 0.06670 0.03070	9691.0 0.01090 0.00996	2
C4 HYDROCARBONS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	10450.0 0.09870 0.04670	4976.0 0.04280 0.01970	0.0 0.00000 0.00000	2
C5 HYDROCARBONS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1210.0 0.01140 0.00541	576.2 0.00496 0.00228	0.0 0.00000 0.00000	2
2,4-D ACID, ESTERS, SALTS	24.9 0.00002 0.00014	0.0 0.00000 0.00000	0.0 0.00000 0.00000	24.9 0.00021 0.00010	0.0 0.00000 0.00000	2
DALAPON	1.1 0.00000 0.00001	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.1 0.00001 0.00000	0.0 0.00000 0.00000	2
DBCP	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	9.1 0.00008 0.00004	0.0 0.00000 0.00000	2
DDT	13.6 0.00001 0.00008	0.0 0.00000 0.00000	0.0 0.00000 0.00000	27.2 0.00023 0.00011	0.0 0.00000 0.00000	2
DECYL ALCOHOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	71.1 0.00061 0.00028	106.7 0.00012 0.00011	2
DEEP FRYING	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	14970.0 0.12900 0.05930	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
DEFOLIATION OF COTTON						
DI BUTYL PHTHALATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	19.7 0.00017 0.00008	0.0 0.00000 0.00000	2
DI-2-ETHYLHEXYL PHTHALATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	641.3 0.00552 0.00254	0.0 0.00000 0.00000	2
DI-2-ETHYLHEXYL ADIPATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	10.2 0.00009 0.00004	0.0 0.00000 0.00000	2
DIAZINON	2.7 0.00000 0.00002	1116.0 0.00486 0.00370	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
DICAMBA	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2.7 0.00002 0.00001	0.0 0.00000 0.00000	2
O-DICHLOROBENZENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	640.1 0.00551 0.00254	0.0 0.00000 0.00000	2
P-DICHLOROBENZENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	947.1 0.00815 0.00375	0.0 0.00000 0.00000	2
DICHLOROBENZONITRILE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
DICHLORODIFLUOROMETHANE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	849.1 0.00731 0.00336	0.0 0.00000 0.00000	2
DICHLORONAPHTHO QUINONE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	4.5 0.00004 0.00002	0.0 0.00000 0.00000	2
DICHLOROTETRAFLUOROETHANE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	15.1 0.00013 0.00006	0.0 0.00000 0.00000	2
DICHLOROVOS	0.2 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.4 0.00000 0.00000	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
DICHLOROPROPENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	11.3 0.00010 0.00004	0.0 0.00000 0.00000	2
DICOFOL	0.9 0.00000 0.00001	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.8 0.00002 0.00001	0.0 0.00000 0.00000	2
DICROTOPHOS	0.2 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.2 0.00000 0.00000	0.0 0.00000 0.00000	2
DIETHYLAMINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	5.0 0.00004 0.00002	0.0 0.00000 0.00000	2
DIISODECYL PHTHALATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	154.9 0.00133 0.00061	0.0 0.00000 0.00000	2
DIISOOCTAL PHTHALATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	39.4 0.00034 0.00016	0.0 0.00000 0.00000	2
DIMETHYL PHTHALATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	10.0 0.00009 0.00004	0.0 0.00000 0.00000	2
DIMETHYL TEREPHTHALATE	734.9 0.00059 0.00409	562.9 0.00245 0.00187	46.9 0.00044 0.00021	49440.0 0.42600 0.19600	28710.0 0.03220 0.02950	2
DIMETHYL HYDRAZINE	--	--	--	--	--	2
DIMETHOATE	0.7 0.00000 0.00000	0.4 0.00000 0.00000	0.4 0.00000 0.00000	2.7 0.00002 0.00001	0.0 0.00000 0.00000	2
DINITROTOLUENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	4.0 0.00004 0.00002	14.7 0.00013 0.00006	0.0 0.00000 0.00000	2
DINITROBENZENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.4 0.00001 0.00001	0.0 0.00000 0.00000	2
DINITROPHENOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.2 0.00000 0.00000	0.7 0.00001 0.00000	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
DINOSEB	1.3 0.00000 0.00001	1.7 0.00001 0.00001	1.3 0.00001 0.00001	1.4 0.00001 0.00001	0.0 0.00000 0.00000	2
DIQUAT	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.3 0.00000 0.00000	0.0 0.00000 0.00000	2
DISPOSAL OF CONCRETE BLOCK WASTES	2996.0 0.00239 0.01670					4
DISPOSAL OF ASBESTOS WASTE ORE	7620.0 0.00608 0.04240					4
DISTILLED LIQUOR	2640.0 0.00211 0.01470	0.0 0.00000 0.00000	0.0 0.00000 0.00000	10560.0 0.09090 0.04180	0.0 0.00000 0.00000	2
DISULFOTON	2.3 0.00000 0.00001	929.9 0.00405 0.00309	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
DIURON	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2.3 0.00002 0.00001	0.0 0.00000 0.00000	2
DODECYLBENZENE SULFONIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	664.8 0.00572 0.00263	0.0 0.00000 0.00000	2
DODECYLBENZENE SULFONIC ACID - SODIUM SALT	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1694.0 0.01460 0.00671	0.0 0.00000 0.00000	2
DODECYLBENZENE SULFONIC ACID - TRIETHYLAMINE SALT	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	31.3 0.00027 0.00012	0.0 0.00000 0.00000	2
DODECYLBENZENE - HARD	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	561.3 0.00483 0.00222	280.7 0.00031 0.00029	2
DODECENE - NON-LINEAR	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	105.2 0.00091 0.00042	0.0 0.00000 0.00000	2
DODECYLBENZENE SULFONIC ACID - CALCIUM SALT	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	56.3 0.00048 0.00022	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
DODECYLBENZENE SULFONIC ACID - ISOPROPYLEMINE SALT	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	10.0 0.00009 0.00004	0.0 0.00000 0.00000	2
DRAWING AND SPINNING COTTON FIBRES	5071.0 0.00405 0.02820	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
DRAWING AND SPINNING FLAX FIBRES	5.3 0.00000 0.00003	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
DRAWING AND SPINNING WOOL FIBRES	135.1 0.00011 0.00075	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
DRILLING OIL AND GAS - BEFORE WELL HIT	62.1 0.00005 0.00024					4
DRUM INCINERATION	476.3 0.00038 0.00265	0.0 0.00000 0.00000	66.7 0.00063 0.00030	285.8 0.00246 0.00113	790.6 0.00689 0.00381	1
DSMA	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	5.0 0.00004 0.00002	0.0 0.00000 0.00000	2
DYEING COTTON FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	4614.0 0.03970 0.01830	0.0 0.00000 0.00000	2
DYEING LINEN FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.1 0.00000 0.00000	0.0 0.00000 0.00000	2
DYEING NATURAL POLYMER FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.7 0.00001 0.00000	0.0 0.00000 0.00000	2
DYEING RAYON FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2.7 0.00002 0.00001	0.0 0.00000 0.00000	2
DYEING SILK FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
DYEING AND DRYING WOOL FIBRE STOCK	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.4 0.00000 0.00000	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING					
	PART	SO2	NOX	HC	CO	C
DYEING WOOL FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.4 0.00000 0.00000	0.0 0.00000 0.00000	2
DYEING SYNTHETIC POLYMER FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3842.0 0.03310 0.01520	0.0 0.00000 0.00000	2
ELECTRICAL EQUIPMENT WINDING RECLAMATION	312.5 0.00025 0.00174	5.3 0.00002 0.00002	182.7 0.00173 0.00082	14.9 0.00013 0.00006	36.5 0.00004 0.00004	1
ELECTRICITY GENERATION EXT COMB BITUMINOUS PULV WET BOTM	453700.0 0.36200 2.53000	1724000.0 7.50000 5.72000	688600.0 6.50000 3.68000	6886.0 0.05930 0.02730	23480.0 0.02630 0.02410	1
ELECTRICITY GENERATION EXT COMB BITUMINOUS CYCLONE	226900.0 0.18100 1.26000	1724000.0 7.50000 5.72000	1270000.0 12.00000 5.68000	6886.0 0.05930 0.02730	23480.0 0.02630 0.02410	1
ELECTRICITY GENERATION EXT COMB BITUMINOUS STOKER	68740.0 0.05480 0.38300	89650.0 0.39000 0.29800	18070.0 0.17100 0.08080	1087.0 0.00935 0.00431	2351.0 0.00264 0.00241	1
ELECTRICITY GENERATION EXT COMB ANTHRACITE PULV DRY BOTM	15430.0 0.01230 0.08590	13600.0 0.05920 0.04520	4164.0 0.03930 0.01860	7.3 0.00006 0.00003	23.6 0.00003 0.00002	1
ELECTRICITY GENERATION EXT COMB ANTHRACITE STOKER	3447.0 0.00275 0.01920	23570.0 0.10300 0.07820	6421.0 0.06060 0.02870	81.4 0.00070 0.00032	861.6 0.00097 0.00088	1
ELECTRICITY GENERATION EXT COMB LIGNITE PULV DRY BOTM	45250.0 0.03610 0.25200	67020.0 0.29200 0.22200	38100.0 0.36000 0.17000	3358.0 0.02890 0.01330	3358.0 0.00376 0.00345	1
ELECTRICITY GENERATION EXT COMB LIGNITE PULV WET BOTM	11770.0 0.00939 0.06560	17230.0 0.07500 0.05720	9839.0 0.08540 0.04040	903.9 0.00778 0.00358	903.9 0.00101 0.00093	1
ELECTRICITY GENERATION EXT COMB LIGNITE CYCLONE	7624.0 0.00608 0.04250	10920.0 0.04750 0.03620	3445.0 0.03250 0.01540	571.4 0.00492 0.00226	1177.0 0.00132 0.00121	1
ELECTRICITY GENERATION EXT COMB LIGNITE STOKER	7598.0 0.00606 0.04230	10890.0 0.04740 0.03610	3447.0 0.03260 0.01540	572.7 0.00493 0.00227	1179.0 0.00132 0.00121	1
ELECTRICITY GENERATION EXT COMB RESID OIL TANG FIRE	42730.0 0.03410 0.23800	526400.0 2.29000 1.75000	163400.0 1.54000 0.73100	3265.0 0.02810 0.01290	16340.0 0.01830 0.01680	1

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
ELECTRICITY GENERATION EXT COMB RESID OIL OTHER	66040.0 0.05270 0.36800	816100.0 3.55000 2.71000	535300.0 5.06000 2.39000	4986.0 0.04290 0.01980	25480.0 0.02850 0.02610	1
ELECTRICITY GENERATION EXT COMB DIST OIL TANG FIRE	1361.0 0.00109 0.00758	5542.0 0.02410 0.01840	8718.0 0.08230 0.03900	345.2 0.00297 0.00137	526.6 0.00059 0.00054	1
ELECTRICITY GENERATION EXT COMB DIST OIL OTHER	2178.0 0.00174 0.01210	8705.0 0.03790 0.02890	2903.0 0.02740 0.01300	554.5 0.00477 0.00220	817.9 0.00092 0.00084	1
ELECTRICITY GENERATION EXT COMB GAS TANG FIRE	3548.0 0.00283 0.01980	208.7 0.00091 0.00069	108800.0 1.03000 0.48700	354.8 0.00305 0.00141	5993.0 0.00672 0.00616	1
ELECTRICITY GENERATION EXT COMB GAS OTHER	10840.0 0.00865 0.06040	653.4 0.00284 0.00217	761600.0 7.19000 3.41000	1084.0 0.00933 0.00429	18560.0 0.02080 0.01910	1
ELECTRICITY GENERATION EXT COMB REFUSE	600100.0 0.47900 3.34000	18130.0 0.07890 0.06020	1160.0 0.01110 0.00528	0.0 0.00000 0.00000	335.6 0.00038 0.00034	1
ELECTRICITY GENERATION INT COMB DIST OIL TURBINE	4628.0 0.00369 0.02580	3268.0 0.01420 0.01080	62570.0 0.59100 0.28000	5174.0 0.04450 0.02050	14530.0 0.01630 0.01490	1
ELECTRICITY GENERATION INT COMB GAS TURBINE	1453.0 0.00116 0.00809	526.3 0.00229 0.00175	41690.0 0.39400 0.18600	4268.0 0.03670 0.01690	11840.0 0.01330 0.01220	1
ELECTRICITY GENERATION INT COMB DIST OIL RECIP ENG	19010.0 0.01520 0.10600	2631.0 0.01140 0.00873	271100.0 2.56000 1.21000	21730.0 0.18700 0.08610	56940.0 0.06380 0.05850	1
ELECTRICITY GENERATION INT COMB GAS RECIP ENG	299.7 0.00024 0.00167	12.7 0.00006 0.00004	108800.0 1.03000 0.48700	25.4 0.00022 0.00010	2456.0 0.00275 0.00252	1
ELECTRICITY GENERATION EXT COMB BITUMINOUS PULV DRY BOTH	3174000.0 2.53000 17.70000	9073000.0 39.50000 30.10000	2175000.0 20.50000 9.73000	37240.0 0.32100 0.14800	127500.0 0.14300 0.13100	1
ELECTROLYTIC PRODUCTION OF CHLORINE	--	--	--	--	--	3
ENDOSULFAN	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.4 0.00001 0.00001	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
ENDRIN	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.4 0.00001 0.00001	0.0 0.00000 0.00000	2
EPICHLOROHYDRIN	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	408.2 0.00351 0.00162	0.0 0.00000 0.00000	2
EPOXY RESINS - MODIFIED	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	82.6 0.00071 0.00033	0.0 0.00000 0.00000	2
EPOXY RESINS - UNMODIFIED	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	144.0 0.00124 0.00057	0.0 0.00000 0.00000	2
EPTC	1.4 0.00000 0.00001	557.9 0.00243 0.00185	0.0 0.00000 0.00000	9.1 0.00004 0.00002	0.0 0.00000 0.00000	2
ETHANOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1502.0 0.01290 0.00595	0.0 0.00000 0.00000	2
ETHANOLAMINE - MONO-, DI-, AND TRI	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1517.0 0.01310 0.00601	0.0 0.00000 0.00000	2
ETHOXYLATED NONYLPHENOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	49.3 0.00042 0.00019	0.0 0.00000 0.00000	2
ETHOXYLATED MIXED LINEAR ALCOHOLS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	9.0 0.00005 0.00002	16.8 0.00002 0.00002	2
ETHOXYLATED OCTYLPHENOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.2 0.00001 0.00000	0.0 0.00000 0.00000	2
2-ETHOXYETHYL ACETATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	13.6 0.00012 0.00005	0.0 0.00000 0.00000	2
ETHOXYETHANOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	30.8 0.00026 0.00012	0.0 0.00000 0.00000	2
ETHYLENE OXIDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	84850.0 0.73000 0.33600	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
ETHYL BENZENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	44680.0 0.36500 0.17700	9531.0 0.01070 0.00979	2
ETHYLENE GLYCOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2276.0 0.01960 0.00902	0.0 0.00000 0.00000	2
ETHYLENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	24020.0 0.22700 0.10700	11440.0 0.09850 0.04530	0.0 0.00000 0.00000	2
ETHYL CHLORIDE - ETHYLENE HYDROCHLORINATION	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	5205.0 0.04480 0.02060	0.0 0.00000 0.00000	2
ETHYL ACRYLATE - DIRECT ESTERIFICATION	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1207.0 0.01040 0.00478	0.0 0.00000 0.00000	2
ETHYL ACRYLATE - CARBONYLATION OF ACETYLENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1217.0 0.01050 0.00482	1207.0 0.00135 0.00124	2
ETHYL ACETATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	461.5 0.00397 0.00183	0.0 0.00000 0.00000	2
ETHYL ETHER	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	74.8 0.00064 0.00030	0.0 0.00000 0.00000	2
ETHYLENE - PROPYLENE TERPOLYMER	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	16570.0 0.14300 0.06570	0.0 0.00000 0.00000	2
2-ETHYL-1-HEXANOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	41350.0 0.35600 0.16400	0.0 0.00000 0.00000	2
ETHYLENE-PROPYLENE RUBBER	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	7928.0 0.06820 0.03140	0.0 0.00000 0.00000	2
ETHYLENE DIAMINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	36.7 0.00032 0.00015	0.0 0.00000 0.00000	2
ETHYL BUTYRATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.3 0.00000 0.00000	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
ETHYLENE DIBROMIDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	357.8 0.00308 0.00142	0.0 0.00000 0.00000	2
ETHYLENE DICHLORIDE - ETHYLENE CHLORINATION	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	29820.0 0.25700 0.11800	0.0 0.00000 0.00000	2
ETHYLENE DICHLORIDE - OXYHYDROCHLORINATION	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	21470.0 0.18500 0.08510	0.0 0.00000 0.00000	2
EXFOLIATED VERMICULITE	1365.0 0.00109 0.00760	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
EXPLOSIVES BURNING	370.9 0.00030 0.00207	1071.0 0.00466 0.00356	752.1 0.00710 0.00336	463.6 0.00399 0.00184	0.0 0.00000 0.00000	1
FELTING WOOL FABRICS	0.2 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
FENSULFOTHION	1.4 0.00000 0.00001	557.9 0.00243 0.00185	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
FERROALLOY PRODUCTION	138300.0 0.11000 0.77100	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
FERTILIZER MIXING - AMMONIATION - GRANULATION PLANTS	1911.0 0.00152 0.01060	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
FERTILIZER MIXING - LIQUID MIX PLANTS	180.8 0.00014 0.00101	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
FERTILIZERS - BULK BLENDING PLANTS	2200.0 0.00176 0.01230	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
FINISHING COTTON FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	296.4 0.00255 0.00117	0.0 0.00000 0.00000	2
FINISHING LINEN FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	43.2 0.00037 0.00017	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
FINISHING NATURAL POLYMER FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	564.4 0.00486 0.00224	0.0 0.00000 0.00000	2
FINISHING RAYON FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2258.0 0.01940 0.00895	0.0 0.00000 0.00000	2
FINISHING SILK FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	37.7 0.00032 0.00015	0.0 0.00000 0.00000	2
FINISHING WOOL FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	305.9 0.00263 0.00121	0.0 0.00000 0.00000	2
FINISHING SYNTHETIC POLYMER FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	59.5 0.00051 0.00024	0.0 0.00000 0.00000	2
FISH AND SEAFOOD CANNING	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	340.3 0.00293 0.00135	0.0 0.00000 0.00000	2
FLAT GLASS, PRESSED AND BLOWN GLASS, AND GLASS CONTAINERS	44030.0 0.03510 0.24500	34080.0 0.14800 0.11300	68160.0 0.64400 0.30500	3408.0 0.02930 0.01350	85.2 0.00010 0.00009	3
FLUOMETURON	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.1 0.00001 0.00000	0.0 0.00000 0.00000	2
FLUORINE	--	--	--	--	--	3
FOLPET	0.1 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.4 0.00001 0.00001	0.0 0.00000 0.00000	2
FOOD PREPARATION	499.7 0.00040 0.00278	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2998.0 0.00336 0.00308	2
FORMALDEHYDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	22500.0 0.19400 0.08910	0.0 0.00000 0.00000	2
FORMIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	14.9 0.00013 0.00006	223.5 0.00025 0.00023	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SOZ	NOX	HC	CO	C
FRUIT AND VEGETABLE FREEZING	426.8 0.00034 0.00238	0.0 0.00000 0.00000	853.7 0.00806 0.00382	21340.0 0.18400 0.08460	0.0 0.00000 0.00000	2
FRUIT AND VEGETABLE CANNING	517.8 0.00041 0.00288	0.0 0.00000 0.00000	1036.0 0.00978 0.00463	25890.0 0.22300 0.10300	0.0 0.00000 0.00000	2
FUMARIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	460.1 0.00396 0.00182	0.0 0.00000 0.00000	2
GAS FIRED LAUNDRY DRYING	817.0 0.00065 0.00455	25.8 0.00011 0.00009	3225.0 0.03050 0.01440	344.0 0.00296 0.00136	860.0 0.00096 0.00088	1
GAS FIRED AIR CONDITIONING	1826.0 0.00146 0.01020	57.7 0.00025 0.00019	7210.0 0.06810 0.03230	769.0 0.00662 0.00305	1923.0 0.00216 0.00198	1
GASOLINE DISTRIBUTION - AUTOMOBILE TANK LOADING	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	544300.0 4.69000 2.16000	0.0 0.00000 0.00000	2
GASOLINE DISTRIBUTION - SERVICE STATION TANKS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	16330.0 0.14100 0.06470	0.0 0.00000 0.00000	2
GASOLINE DISTRIBUTION - TERMINAL LOADING AND STORAGE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	675.5 0.00581 0.00268	0.0 0.00000 0.00000	2
GILLING WOOL FIBRES	59.5 0.00005 0.00033	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
GLYCERIN - ACROLEIN	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	340.2 0.00293 0.00135	0.0 0.00000 0.00000	2
GLYCERIN TRIPOLYOXYPROPYLENE ETHER	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	261.3 0.00225 0.00104	0.0 0.00000 0.00000	2
GLYCERIN - ALLYL ALCOHOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	743.0 0.00640 0.00294	0.0 0.00000 0.00000	2
GLYCERIN - ALLYL CHLORIDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1043.0 0.00898 0.00413	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
GLYCERIN - EPICHLOROHYDRIN	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	103.2 0.00089 0.00041	0.0 0.00000 0.00000	2
GRAIN HARVESTING	105500.0 0.08420 0.50800					4
GYPSUM	99410.0 0.07930 0.55400	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
H V TRANSMISSION LINES						
HANDLING OF CONCRETE PRODUCTS	28540.0 0.02280 0.15900					4
HANDLING OF GRAIN	25050.0 0.02000 0.14000					4
HEPTACHLOR						
HEPTENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.4 0.00001 0.00001	0.0 0.00000 0.00000	2
HEXACHLOROBENZENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	136.1 0.00117 0.00054	0.0 0.00000 0.00000	2
HEXAMETHYLENETETRAMINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	5.4 0.00005 0.00002	0.0 0.00000 0.00000	2
HEXAMETHYLENEDIAMINE - ADIPONITRILE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	276.3 0.00238 0.00109	0.0 0.00000 0.00000	2
HOSPITAL WASTE INCINERATION	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	13.9 0.00012 0.00006	0.0 0.00000 0.00000	2
HYDRAZINE	358.4 0.00029 0.00200	59.7 0.00026 0.00020	59.7 0.00056 0.00027	358.4 0.00308 0.00142	448.0 0.00050 0.00046	1
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SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
HYDROCHLORIC ACID	--	--	--	--	--	3
HYDROQUINONE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	12.0 0.00010 0.00005	0.0 0.00000 0.00000	2
HYDROXYLAMINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
HYDROXYLAMINE SULFATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
HYDROFLUORIC ACID	2350.0 0.00187 0.01310	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
HYDROGEN CYANIDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	365.4 0.00345 0.00163	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
INCINERATION OF "TYPE 4" WASTE	221.8 0.00018 0.00124	0.0 0.00000 0.00000	433.2 0.00409 0.00194	2.1 0.00002 0.00001	71.0 0.00006 0.00007	1
INCINERATION OF "TYPE 0" WASTE	12040.0 0.00961 0.06710	2007.0 0.00873 0.00666	1606.0 0.01520 0.00718	12040.0 0.10400 0.04770	16060.0 0.01800 0.01650	1
INCINERATION OF "TYPE 1" WASTE	50150.0 0.04000 0.27900	8358.0 0.03640 0.02770	6686.0 0.06310 0.02990	50150.0 0.43200 0.19900	66860.0 0.07500 0.06870	1
INCINERATION OF "TYPE 2" WASTE	27620.0 0.02200 0.15400	2302.0 0.01000 0.00764	2762.0 0.02610 0.01240	1381.0 0.01190 0.00547	32230.0 0.03610 0.03310	1
INCINERATION OF "TYPE 3" WASTE	7757.0 0.00619 0.04320	646.4 0.00281 0.00215	775.7 0.00733 0.00347	387.8 0.00334 0.00154	9049.0 0.01010 0.00930	1
INCINERATION OF "TYPE 5" WASTE	1416.0 0.00113 0.00789	0.0 0.00000 0.00000	5244.0 0.04950 0.02350	196.6 0.00169 0.00078	13.1 0.00001 0.00001	1
INCINERATION OF "TYPE 6" WASTE	36060.0 0.02880 0.20100	6010.0 0.02620 0.02000	4808.0 0.04540 0.02150	36060.0 0.31000 0.14300	48080.0 0.05390 0.04940	1

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C	
INDUSTRIAL EXT COMB BITUMINOUS PULV DRY BOTH	66060.0 0.05270 0.36800	408100.0 1.78000 1.35000	223800.0 2.11000 1.00000	682.5 0.00587 0.00270	0.0 0.00000 0.00000		1
INDUSTRIAL EXT COMB BITUMINOUS PULV WET BOTH	89870.0 0.07170 0.50100	199700.0 0.86900 0.66300	79070.0 0.74700 0.35400	790.7 0.00681 0.00313	2631.0 0.00295 0.00270		1
INDUSTRIAL EXT COMB BITUMINOUS CYCLONE	5433.0 0.00433 0.03030	61570.0 0.26800 0.20400	44370.0 0.41900 0.19800	244.4 0.00210 0.00097	806.5 0.00090 0.00083		1
INDUSTRIAL EXT COMB BITUMINOUS STOKER	815900.0 0.65100 4.54000	776000.0 3.38000 2.58000	150800.0 1.42000 0.67400	9977.0 0.08590 0.03950	2018.0 0.00226 0.00207		1
INDUSTRIAL EXT COMB ANTHRACITE STOKER	5713.0 0.00456 0.03180	6621.0 0.02880 0.02200	1717.0 0.01620 0.00768	49.9 0.00043 0.00020	1542.0 0.00173 0.00158		1
INDUSTRIAL EXT COMB LIGNITE STOKER	31590.0 0.02520 0.17600	22490.0 0.09790 0.07470	16380.0 0.15500 0.07330	1270.0 0.01090 0.00503	12700.0 0.01420 0.01300		1
INDUSTRIAL EXT COMB RESID OIL TANG FIRE	7731.0 0.00617 0.04310	145400.0 0.63300 0.48300	37180.0 0.35100 0.16600	638.1 0.00549 0.00253	3448.0 0.00387 0.00354		1
INDUSTRIAL EXT COMB RESID OIL OTHER	41870.0 0.03340 0.23300	763400.0 3.32000 2.53000	197800.0 1.87000 0.88500	2722.0 0.02340 0.01080	13590.0 0.01520 0.01400		1
INDUSTRIAL EXT COMB DIST OIL TANG FIRE	2721.0 0.00217 0.01520	5442.0 0.02370 0.01810	9070.0 0.08570 0.04060	598.6 0.00515 0.00237	807.2 0.00090 0.00083		1
INDUSTRIAL EXT COMB DIST OIL OTHER	16330.0 0.01300 0.09100	31720.0 0.13800 0.10500	90740.0 0.85700 0.40600	3172.0 0.02730 0.01260	4350.0 0.00488 0.00447		1
INDUSTRIAL EXT COMB GAS TANG FIRE	2268.0 0.00181 0.01260	127.1 0.00055 0.00042	38070.0 0.36000 0.17000	699.5 0.00602 0.00277	3715.0 0.00417 0.00382		1
INDUSTRIAL EXT COMB GAS OTHER	19960.0 0.01590 0.11100	1179.0 0.00513 0.00392	344600.0 3.25000 1.54000	6256.0 0.05390 0.02480	33640.0 0.03770 0.03460		1
INDUSTRIAL EXT COMB REFUSE	228900.0 0.18300 1.28000	16390.0 0.07130 0.05440	131900.0 1.25000 0.59000	33050.0 0.28400 0.13100	35900.0 0.04020 0.03690		1

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
INDUSTRIAL INT COMB DIST OIL TURBINE	1542.0 0.00123 0.00859	2901.0 0.01260 0.00963	10880.0 0.10300 0.04870	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1
INDUSTRIAL INT COMB GAS TURBINE	0.0 0.00000 0.00000	226.7 0.00099 0.00075	226700.0 2.14000 1.01000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1
INDUSTRIAL INT COMB DIST OIL RECIP ENG	3359.0 0.00268 0.01870	3263.0 0.01420 0.01080	47150.0 0.44500 0.21100	3806.0 0.03280 0.01510	9973.0 0.01120 0.01020	1
INDUSTRIAL INT COMB GAS RECIP ENG	0.0 0.00000 0.00000	154.4 0.00067 0.00051	745400.0 7.04000 3.33000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1
INDUSTRIAL SAND HANDLING	3560.0 0.00284 0.01470					4
IRON FOUNDRIES	153600.0 0.12300 0.85500	0.0 0.00000 0.00000	8875.0 0.08380 0.03970	0.0 0.00000 0.00000	1287000.0 1.44000 1.32000	3
IRON CHLORIDE - FERRIC	34.9 0.00003 0.00019	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
IRON OXIDE - PIGMENTS	--	--	--	--	--	3
ISOCYANATES	360.5 0.00029 0.00201	9.1 0.00004 0.00003	0.0 0.00000 0.00000	584.1 0.00503 0.00231	38810.0 0.04350 0.03990	2
ISOOCTAL ALCOHOLS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	43.1 0.00037 0.00017	64.6 0.00007 0.00007	2
ISOPHTHALIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	104.3 0.00090 0.00041	347.7 0.00061 0.00056	2
ISOPROPYL ACETATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	18.1 0.00016 0.00007	0.0 0.00000 0.00000	2
ISOPRENE - 2-METHYL-1,3-BUTADIENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	177.3 0.00153 0.00070	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
ISOPROPANOL - DIRECT HYDRATION	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	9.3 0.00008 0.00004	0.0 0.00000 0.00000	2
JET ENGINE TESTING	268.5 0.00021 0.00150	112.6 0.00049 0.00037	330.8 0.00312 0.00148	472.5 0.00407 0.00187	1220.0 0.00137 0.00125	1
KETONE ALCOHOL OIL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	389.9 0.00336 0.00154	431.7 0.00048 0.00044	2
LAND CLEARING - OPEN BURNING	--	--	--	--	--	1
LEAD CARBONATE AND SULFATE - WHITE LEAD	2.3 0.00000 0.00001	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
LEAD OXIDE - RED LEAD AND LITHARGE - PIGMENTS ONLY	37.1 0.00003 0.00021	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
LEAD CHROMATE - CHROME YELLOW AND ORANGE	1.5 0.00000 0.00001	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
LEAD COMPOUNDS - HALIDES, HYDROXIDES, DIOXIDE, NITRATE, ETC.	0.5 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
LEAD ARSENATE	--	--	--	--	--	3
LEATHER	440.0 0.00035 0.00245	440.0 0.00191 0.00146	110.0 0.00104 0.00049	1100.0 0.00947 0.00436	44.0 0.00005 0.00005	2
LIME KILNS	312400.0 0.24900 1.74000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
LINDANE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.5 0.00000 0.00000	0.0 0.00000 0.00000	2
LINEAR ALKYLBENZENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	13.7 0.00012 0.00005	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
LINEAR ALCOHOLS - ZIEGLER PROCESS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	59.0 0.00051 0.00023	0.0 0.00000 0.00000	2
LINURON	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.7 0.00001 0.00000	0.0 0.00000 0.00000	2
LITHIUM SALTS - LITHIUM CARBONATE AND LITHIUM HYDROXIDE	3.2 0.00000 0.00002	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
LOADING OF SAND AND GRAVEL	20860.0 0.01660 0.08020					4
LOADING HYDRAULIC CEMENT	3117.0 0.00249 0.01120					4
LOADING READY-MIX CEMENT	5341.0 0.00426 0.02010					4
LOADING OF FINISHED CLAY	258.6 0.00021 0.00089					4
LOADING LIME	356.3 0.00028 0.00117					4
MAGNESIUM COMPOUNDS - CARBONATE, CHLORIDE, OXIDE & HYDROXIDE	3033.0 0.00242 0.01690	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
MALATHION	6.8 0.00001 0.00004	4.4 0.00002 0.00001	3.7 0.00003 0.00002	27.2 0.00023 0.00011	0.0 0.00000 0.00000	2
MALEIC ANHYDRIDE FROM BENZENE	19.2 0.00002 0.00011	0.0 0.00000 0.00000	57.6 0.00054 0.00026	156800.0 1.35000 0.62100	121600.0 0.13600 0.12500	2
MALT BEVERAGE PRODUCTION	108500.0 0.08660 0.60400	0.0 0.00000 0.00000	0.0 0.00000 0.00000	67810.0 0.58400 0.26900	0.0 0.00000 0.00000	2
MANEB	2.7 0.00000 0.00002	1116.0 0.00486 0.00370	0.0 0.00000 0.00000	8.2 0.00007 0.00003	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
MANGANESE SULFATE	34.8	0.0	0.0	0.0	0.0	3
	0.00003	0.00000	0.00000	0.00000	0.00000	
	0.00019	0.00000	0.00000	0.00000	0.00000	
MANUFACTURE OF ASBESTOS PRODUCTS - WEAVING	13.7	0.0	0.0	0.0	0.0	2
	0.00001	0.00000	0.00000	0.00000	0.00000	
	0.00008	0.00000	0.00000	0.00000	0.00000	
MANUFACTURE OF COTTON FABRICS	1075.0	0.0	0.0	0.0	0.0	2
	0.00086	0.00000	0.00000	0.00000	0.00000	
	0.00599	0.00000	0.00000	0.00000	0.00000	
MANUFACTURE OF LINEN CLOTH	1.8	0.0	0.0	0.0	0.0	2
	0.00000	0.00000	0.00000	0.00000	0.00000	
	0.00001	0.00000	0.00000	0.00000	0.00000	
MANUFACTURE AND PROCESSING OF ROPE	46.7	0.0	0.0	0.0	0.0	2
	0.00004	0.00000	0.00000	0.00000	0.00000	
	0.00026	0.00000	0.00000	0.00000	0.00000	
MANUFACTURE OF WOOL CLOTH	22.1	0.0	0.0	0.0	0.0	2
	0.00002	0.00000	0.00000	0.00000	0.00000	
	0.00012	0.00000	0.00000	0.00000	0.00000	
MEAT SMOKEHOUSES	68.1	0.0	0.0	102.1	0.0	2
	0.00005	0.00000	0.00000	0.00008	0.00000	
	0.00038	0.00000	0.00000	0.00040	0.00000	
MELAMINE	52.0	0.0	0.0	0.0	0.0	2
	0.00004	0.00000	0.00000	0.00000	0.00000	
	0.00029	0.00000	0.00000	0.00000	0.00000	
MERCURY COMPOUNDS - HALIDES, NITRATES, OXIDES, ETC.	0.5	0.0	0.0	0.0	0.0	3
	0.00000	0.00000	0.00000	0.00000	0.00000	
	0.00000	0.00000	0.00000	0.00000	0.00000	
MERPHOS	0.0	464.9	0.0	0.0	0.0	2
	0.00000	0.00202	0.00000	0.00000	0.00000	
	0.00000	0.00154	0.00000	0.00000	0.00000	
METALKAMATE (BUX)	2.3	0.0	0.0	6.8	0.0	2
	0.00000	0.00000	0.00000	0.00006	0.00000	
	0.00001	0.00000	0.00000	0.00003	0.00000	
METHANOL	0.0	0.0	0.0	17090.0	17090.0	2
	0.00000	0.00000	0.00000	0.14700	0.01920	
	0.00000	0.00000	0.00000	0.06770	0.01760	
METHANEARSONIC ACID - DODECYL AND OCTYL AMMONIUM SALTS	0.0	0.0	0.0	2.8	0.0	2
	0.00000	0.00000	0.00000	0.00002	0.00000	
	0.00000	0.00000	0.00000	0.00001	0.00000	

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
METHANE ARSENIC ACID	--	--	--	--	--	2
2-METHOXYETHANOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	43.8 0.00038 0.00017	0.0 0.00000 0.00000	2
METHOXYCHLOR	2.3 0.00000 0.00001	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2.3 0.00002 0.00001	0.0 0.00000 0.00000	2
METHYLENE CHLORIDE - CHLORINATION OF METHANE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	9241.0 0.03650 0.01680	0.0 0.00000 0.00000	2
METHYLENE DIPHENYLDIISOCYANATE	--	--	--	--	--	2
METHYL METHACRYLATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	23440.0 0.20200 0.09290	0.0 0.00000 0.00000	2
METHYL ISOBUTYL KETONE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	5248.0 0.04520 0.02080	0.0 0.00000 0.00000	2
METHYL ACETATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	9.1 0.00004 0.00002	0.0 0.00000 0.00000	2
METHYL ETHYL KETONE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	159.9 0.00138 0.00063	0.0 0.00000 0.00000	2
METHYL PARATHION	23.6 0.00002 0.00013	9671.0 0.04210 0.03210	0.0 0.00000 0.00000	23.6 0.00020 0.00009	0.0 0.00000 0.00000	2
METHYL BROMIDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	7.0 0.00006 0.00003	0.0 0.00000 0.00000	2
METHYL CHLORIDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3817.0 0.03290 0.01510	0.0 0.00000 0.00000	2
METHYL MERCAPTAN	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	4.5 0.00004 0.00002	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
MEVINPHOS	0.2 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.2 0.00000 0.00000	0.0 0.00000 0.00000	2
MINERAL WOOL	166700.0 0.13300 0.92900	16920.0 0.07360 0.05620	8061.0 0.07610 0.03610	0.0 0.00000 0.00000	3735.0 0.00419 0.00384	3
MINING AND BLASTING OF ASBESTOS ORE	415.6 0.00033 0.00212					4
MISCELLANEOUS SODIUM COMPOUNDS	56.7 0.00005 0.00032	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
MIXED LINEAR ALCOHOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	481.4 0.00414 0.00191	240.7 0.00027 0.00025	2
MIXED OLEFINIC PRODUCT	--	--	--	--	--	2
MIXED CRESOLS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	65.1 0.00061 0.00029	31.0 0.00027 0.00012	0.0 0.00000 0.00000	2
MODACRYLIC FIBERS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	317.5 0.00273 0.00126	0.0 0.00000 0.00000	2
MONOCROTOPHOS	1.6 0.00000 0.00001	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.6 0.00001 0.00001	0.0 0.00000 0.00000	2
MONOETHYLAMINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	6.4 0.00005 0.00003	0.0 0.00000 0.00000	2
MONOSODIUM GLUTAMATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	9.6 0.00008 0.00004	0.0 0.00000 0.00000	2
MONURON	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.2 0.00000 0.00000	0.0 0.00000 0.00000	2
MSMA	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	17.4 0.00015 0.00007	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
MUNICIPAL DUMPS - OPEN BURNING	--	--	--	--	--	1
MUNICIPAL INCINERATION	227300.0 0.18100 1.27000	16940.0 0.08240 0.06290	22730.0 0.21500 0.10200	11360.0 0.09760 0.04500	265100.0 0.29700 0.27200	1
NABAM	1.1 0.00000 0.00001	464.9 0.00202 0.00154	0.0 0.00000 0.00000	3.4 0.00003 0.00001	0.0 0.00000 0.00000	2
NALED	0.5 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.5 0.00000 0.00000	0.0 0.00000 0.00000	2
NAPHTHALENE - COAL TAR	0.0 0.00000 0.00000	200.9 0.00087 0.00067	0.0 0.00000 0.00000	1205.0 0.01040 0.00477	0.0 0.00000 0.00000	2
NAPHTHALENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	733.5 0.00693 0.00328	349.3 0.00301 0.00138	0.0 0.00000 0.00000	2
NAPHTHENIC ACID - COPPER SALT	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.5 0.00001 0.00001	0.0 0.00000 0.00000	2
NATURAL FIRES	--	--	--	--	--	1
NATURAL GAS DISTRIBUTION	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	905000.0 7.79000 3.59000	0.0 0.00000 0.00000	2
NATURAL GAS EXTRACTION	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	54370.0 0.46800 0.21500	0.0 0.00000 0.00000	2
NATURAL GAS PROCESSING	0.0 0.00000 0.00000	571500.0 2.49000 1.90000	0.0 0.00000 0.00000	762000.0 6.56000 3.02000	0.0 0.00000 0.00000	2
NICKEL COMPOUNDS - EXCEPT NICKEL SULFATE	2.7 0.00000 0.00002	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
NICKEL SULFATE	9.9 0.00001 0.00006	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
NITRIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	27050.0 0.25500 0.12100	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
NITROBENZENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	102.2 0.00096 0.00046	3392.0 0.02920 0.01340	0.0 0.00000 0.00000	2
P-NITROPHENOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	22.5 0.00021 0.00010	33.8 0.00029 0.00013	0.0 0.00000 0.00000	2
NITROGLYCERINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.9 0.00001 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
NITROCELLULOSE	0.0 0.00000 0.00000	29.5 0.00013 0.00010	18.6 0.00018 0.00008	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
NITROCHLOROBENZENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	27.8 0.00026 0.00012	99.0 0.00085 0.00039	0.0 0.00000 0.00000	2
NITROPARAFINS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	7.1 0.00007 0.00003	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
NITROANILINE	0.0 0.00000 0.00000	2.9 0.00001 0.00001	2.9 0.00003 0.00001	2.9 0.00002 0.00001	0.0 0.00000 0.00000	2
NONENE - NON-LINEAR	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	707.6 0.00609 0.00280	0.0 0.00000 0.00000	2
NONYLPHENOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	80.6 0.00069 0.00032	0.0 0.00000 0.00000	2
NYLON 66	19050.0 0.01520 0.10600	0.0 0.00000 0.00000	31.8 0.00030 0.00014	2858.0 0.02460 0.01130	0.0 0.00000 0.00000	2
NYLON 6	9089.0 0.00725 0.05060	0.0 0.00000 0.00000	15.1 0.00014 0.00007	1363.0 0.01170 0.00540	0.0 0.00000 0.00000	2
N-OCTYL-N-DECYL PHTHALATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	26.7 0.00023 0.00011	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
OCTYLPHENOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.6 0.00001 0.00001	0.0 0.00000 0.00000	2
OLEIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	29.9 0.00026 0.00012	0.0 0.00000 0.00000	2
ON SITE BURNING - OPEN BURNING	--	--	--	--	--	1
OPEN BURNING OF AUTO BODIES	--	--	--	--	--	1
OPEN PIT INCINERATION	911.7 0.00073 0.00508	44.2 0.00019 0.00015	159.9 0.00151 0.00071	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1
OPEN BURNING OF INDUSTRIAL WASTE	13140.0 0.01050 0.07320	821.0 0.00357 0.00273	4926.0 0.04650 0.02200	24630.0 0.21200 0.09760	69790.0 0.07820 0.07170	1
OPEN BURNING OF JET FUEL	288.9 0.00023 0.00161	0.0 0.00000 0.00000	74.3 0.00070 0.00033	288.9 0.00249 0.00114	825.6 0.00093 0.00085	1
OPEN BURNING OF WOOD WASTE	3950.0 0.00315 0.02200	0.0 0.00000 0.00000	464.7 0.00439 0.00208	929.4 0.00800 0.00368	11620.0 0.01300 0.01190	1
OPEN BURNING OF RAIL CARS	1644.0 0.00131 0.00916	0.0 0.00000 0.00000	193.5 0.00183 0.00086	386.9 0.00333 0.00153	4837.0 0.00542 0.00497	1
OPEN STORAGE OF SAND AND GRAVEL	45880.0 0.03660 0.17600					4
OPEN MINING AND STORAGE OF MICA	59.4 0.00005 0.00021					4
OPEN MINING AND GRINDING OF PUMICE	451.2 0.00036 0.00191					4
OPEN CLAY MINING	25.9 0.00002 0.00009					4

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
OPEN MINING OF COAL	3426.0 0.00273 0.01910					4
OPEN MINING OF TALC	566.1 0.00045 0.00228					4
ORCHARD HEATING	75250.0 0.06000 0.41900	220500.0 0.95900 0.73200	0.0 0.00000 0.00000	0.0 0.00000 0.00000	4242000.0 4.76000 4.36000	1
OXALIC ACID	17.1 0.00001 0.00010	0.0 0.00000 0.00000	42.9 0.00040 0.00019	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
OXO MIXED LINEAR ALCOHOLS	3.9 0.00000 0.00002	0.0 0.00000 0.00000	31.3 0.00030 0.00014	2374.0 0.02040 0.00940	8813.0 0.00988 0.00905	2
OXO PROCESS	3.8 0.00000 0.00002	0.0 0.00000 0.00000	30.5 0.00029 0.00014	2308.0 0.01990 0.00915	8571.0 0.00961 0.00880	2
PAINT MANUFACTURING	476.2 0.00038 0.00265	0.0 0.00000 0.00000	0.0 0.00000 0.00000	7143.0 0.06150 0.02830	0.0 0.00000 0.00000	2
PAPER MILL BUILDING EMISSIONS						
N-PARAFFINS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	800.2 0.00756 0.00358	381.0 0.00328 0.00151	0.0 0.00000 0.00000	2
N-PARAFFIN CHLORIDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	66.5 0.00057 0.00026	0.0 0.00000 0.00000	2
PARAFORMALDEHYDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	4.5 0.00004 0.00002	0.0 0.00000 0.00000	2
PARATHION	7.7 0.00001 0.00004	3162.0 0.01380 0.01050	0.0 0.00000 0.00000	7.8 0.00007 0.00003	0.0 0.00000 0.00000	2
PARATHION APPLICATION ON CROPS						

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
PENICILLIN G - PROCAINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.2 0.00000 0.00000	0.0 0.00000 0.00000	2
PENICILLIN G - POTASSIUM	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.0 0.00001 0.00000	0.0 0.00000 0.00000	2
PENTAERYTHRITOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	979.8 0.00843 0.00388	0.0 0.00000 0.00000	2
PENTAERYTHRIOL TETRANITRATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	9.3 0.00009 0.00004	5.6 0.00005 0.00002	0.0 0.00000 0.00000	2
PENTACHLOROPHENOL AND SODIUM SALTS	69.9 0.00005 0.00036	0.0 0.00000 0.00000	0.0 0.00000 0.00000	23.6 0.00020 0.00009	0.0 0.00000 0.00000	2
PERCHLOROETHYLENE - FROM TRICHLOROETHYLENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	271.9 0.00234 0.00108	0.0 0.00000 0.00000	2
PERCHLOROETHYLENE - CHLORINATION OF PROPANE	--	--	--	--	--	2
PERLITE MANUFACTURING	1935.0 0.00154 0.01080	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
PETROLEUM EXTRACTION	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	111500.0 0.95900 0.44200	0.0 0.00000 0.00000	2
PETROLEUM REFINING - ALKYLATION	1.4 0.00000 0.00001	11.6 0.00005 0.00004	2.3 0.00002 0.00001	0.3 0.00000 0.00000	0.2 0.00000 0.00000	2
PETROLEUM REFINING - AROMATICS/ISOMERIZATION	6.3 0.00000 0.00003	17.9 0.00008 0.00004	8.9 0.00008 0.00004	0.8 0.00001 0.00000	0.9 0.00000 0.00000	2
PETROLEUM REFINING - ASPHALT PLANT	5852.0 0.00467 0.03260	4755.0 0.02070 0.01580	0.0 0.00000 0.00000	7498.0 0.06450 0.02970	31090.0 0.03490 0.03190	2
PETROLEUM REFINING - BLENDING AND STORAGE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	215600.0 1.86000 0.85400	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
PETROLEUM REFINING - CATALYTIC CRACKING	91480.0 0.03310 0.23100	488500.0 2.13000 1.62000	60730.0 0.57400 0.27200	208900.0 1.80000 0.82800	1185.0 0.00133 0.00122	2
PETROLEUM REFINING - CATALYTIC HYDROREFINING (MOD)	1202.0 0.00096 0.00669	2518.0 0.01100 0.00836	2146.0 0.02030 0.00968	85.8 0.00074 0.00034	200.3 0.00022 0.00021	2
PETROLEUM REFINING - CATALYTIC REFORMING	1667.0 0.00133 0.00929	3427.0 0.01490 0.01140	2872.0 0.02710 0.01260	185.3 0.00159 0.00073	277.9 0.00031 0.00028	2
PETROLEUM REFINING - CRUDE DISTILLATION	34820.0 0.02780 0.19400	278600.0 1.21000 0.92500	69640.0 0.65800 0.31200	6840.0 0.05890 0.02710	6964.0 0.00781 0.00715	2
PETROLEUM REFINING - FLARES	0.0 0.00000 0.00000	62180.0 0.27100 0.20600	7076.0 0.07440 0.03520	1534.0 0.01320 0.00608	2908.0 0.00335 0.00307	2
PETROLEUM REFINING - FUGITIVE EMISSIONS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	912000.0 7.85000 3.61000	0.0 0.00000 0.00000	2
PETROLEUM REFINING - SULFUR PLANT	0.0 0.00000 0.00000	28610.0 0.12500 0.09560	0.0 0.00000 0.00000	0.0 0.00000 0.00000	28610.0 0.03250 0.02960	2
PETROLEUM REFINING - VACUUM DISTILLATION	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	92470.0 0.79600 0.36600	3884.0 0.00435 0.00399	2
PETROLEUM REFINING - WASTE WATER PLANT	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	257000.0 2.21000 1.02000	0.0 0.00000 0.00000	2
PHENYLMERCURY OLEATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1815.0 0.01560 0.00719	0.0 0.00000 0.00000	2
PHENYLMERCURY ACETATE - PMA - PMAS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.1 0.00000 0.00000	0.0 0.00000 0.00000	2
PHORATE	2.3 0.00000 0.00001	929.9 0.00405 0.00309	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
PHOSGENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.4 0.00000 0.00000	0.4 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
PHOSPHORIC ACID - WET PROCESS	1734.0 0.00138 0.00966	222.0 0.00057 0.00074	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
PHOSPHORIC ACID - THERMAL PROCESS	1528.0 0.00122 0.00851	0.0 0.00000 0.00000	41.7 0.00039 0.00019	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
PHOSPHATE ROCK - DRYING, GRINDING, CALCINING	20570.0 0.01640 0.11500	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
PHOSPHAMIDION	0.2 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.2 0.00000 0.00000	0.0 0.00000 0.00000	2
PHOSPHATE ROCK DEFLUORINATION	--	--	--	--	--	3
PHOSPHORUS - ELEMENTAL	--	--	--	--	--	3
PHOSPHORUS OXYCHLORIDE	--	--	--	--	--	3
PHOSPHORUS TRICHLORIDE	--	--	--	--	--	3
PHOSPHORUS PENTASULFIDE	--	--	--	--	--	3
PHOSPHATE ROCK OPEN STORAGE	35510.0 0.02830 0.17100					4
PHOSPHATE ROCK LOADING	22600.0 0.01800 0.10900					4
PHTHALIC ANHYDRIDE - O-XYLENE	123.5 0.00010 0.00069	1647.0 0.00717 0.00547	452.8 0.00428 0.00203	65050.0 0.56000 0.25800	452.8 0.00051 0.00046	2
PHTHALIC ANHYDRIDE - NAPHTHALENE	62.1 0.00005 0.00035	0.0 0.00000 0.00000	227.7 0.00215 0.00102	83750.0 0.72100 0.33200	215.2 0.00024 0.00022	2
PIG IRON PRODUCTION	1281000.0 1.02000 7.13000	55000.0 0.23900 0.18300	40140.0 0.37900 0.18000	0.0 0.00000 0.00000	71050000.0 79.70000 73.00000	3

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
PLASTICS PROCESSING	154300.0 0.12300 0.86000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	962900.0 3.98000 1.03000	0.0 0.00000 0.00000	2
PLYWOOD AND VENEER DRYING	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	9169.0 0.07890 0.03630	0.0 0.00000 0.00000	2
POLYAMIDE RESINS	5.7 0.00000 0.00003	0.0 0.00000 0.00000	0.0 0.00000 0.00000	857.6 0.00738 0.00340	0.0 0.00000 0.00000	2
POLYACRYLONITRILE - POLYMERIZATION SOLUTION	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	113.4 0.00098 0.00045	0.0 0.00000 0.00000	2
POLYBUTADIENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1173.0 0.01010 0.00465	0.0 0.00000 0.00000	2
POLYCHLOROPRENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.2 0.00000 0.00000	1371.0 0.01180 0.00543	0.0 0.00000 0.00000	2
POLYCARBONATE RESINS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	4.0 0.00003 0.00002	0.0 0.00000 0.00000	2
POLYCHLORINATED BIPHENYLS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	110.0 0.00095 0.00044	0.0 0.00000 0.00000	2
POLYESTER RESINS - UNSATURATED	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1115.0 0.00960 0.00442	0.0 0.00000 0.00000	2
POLYETHYLENE RESIN - LOW DENSITY	599.1 0.00048 0.00334	0.0 0.00000 0.00000	0.0 0.00000 0.00000	23960.0 0.20600 0.09490	0.0 0.00000 0.00000	2
POLYETHYLENE RESIN - HIGH DENSITY	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	28220.0 0.24300 0.11200	0.0 0.00000 0.00000	2
POLYESTER POLYOLS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	81.0 0.00070 0.00032	0.0 0.00000 0.00000	2
POLYISOPRENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	112.5 0.00097 0.00044	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
POLYMETHYLENE POLYPHENYL ISOCYANATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	208.7 0.00180 0.00085	0.0 0.00000 0.00000	2
POLYPROPYLENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	9768.0 0.08410 0.03870	0.0 0.00000 0.00000	2
POLYSTYRENE RESIN	293.4 0.00023 0.00163	968.3 0.00421 0.00321	0.0 0.00000 0.00000	17119.0 0.14700 0.06780	0.0 0.00000 0.00000	2
POLYSULFIDE RUBBER	0.0 0.00000 0.00000	21.8 0.00009 0.00007	0.0 0.00000 0.00000	21.8 0.00019 0.00009	0.0 0.00000 0.00000	2
POLYURETHANE SURFACE COATING RESINS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	22.5 0.00019 0.00009	0.0 0.00000 0.00000	2
POLYURETHANE ELASTOMER	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	22.5 0.00019 0.00009	0.0 0.00000 0.00000	2
POLYURETHANE FIBERS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	9.1 0.00004 0.00002	0.0 0.00000 0.00000	2
POLYVINYL ACETATE RESINS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	301.9 0.00260 0.00120	0.0 0.00000 0.00000	2
POLYVINYL CHLORIDE	16610.0 0.01330 0.09250	0.5 0.00000 0.00000	0.0 0.00000 0.00000	78650.0 0.67700 0.31200	0.0 0.00000 0.00000	2
POLYVINYL ALCOHOL RESINS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	184.9 0.00159 0.00073	0.0 0.00000 0.00000	2
POLYVINYLVINYLIDENE CHLORIDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	123.8 0.00107 0.00049	0.0 0.00000 0.00000	2
POTASSIUM HYDROXIDE	--	--	--	--	--	3
POTASSIUM SULFATE	366.5 0.00029 0.00204	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING					
	PART	SO2	NOX	HC	CO	C
POTASH - POTASSIUM SALTS	23610.0 0.01880 0.13100	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
POTASSIUM PERMANGANATE AND MANGANESE DIOXIDE	17.6 0.00001 0.00010	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
POTASSIUM BICHROMATE AND POTASSIUM CHROMATE	0.2 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
POULTRY DRESSING						
PREPARATION OF ASBESTOS FIBRES	37.8 0.00003 0.00021	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
PREPARATION OF COTTON FIBRES	20280.0 0.01620 0.11300	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
PRESCRIBED BURNING	383800.0 0.30600 2.14000	0.0 0.00000 0.00000	99800.0 0.94300 0.44600	99800.0 0.85900 0.39500	752300.0 0.84400 0.77300	1
PRIMARY LEAD SMELTING AND REFINING	3879.0 0.00309 0.02160	41970.0 0.18300 0.13900	318.0 0.00300 0.00142	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
PRIMARY ALUMINUM PRODUCTION	144600.0 0.11500 0.80500	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
PRIMARY ZINC SMELTING	46750.0 0.03730 0.26000	5744.0 0.02500 0.01910	287.2 0.00271 0.00128	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
PRIMARY COPPER SMELTING	6125.0 0.00489 0.03410	99790.0 0.43400 0.33100	798.3 0.00754 0.00357	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
PRINTING INK	226.7 0.00018 0.00126	0.0 0.00000 0.00000	0.0 0.00000 0.00000	17000.0 0.14600 0.06740	0.0 0.00000 0.00000	2
PRINTING COTTON FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	74100.0 0.63800 0.29400	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
PRINTING LINEN FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	595.6 0.00513 0.00236	0.0 0.00000 0.00000	2
PRINTING NATURAL POLYMER FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	7779.0 0.06700 0.03080	0.0 0.00000 0.00000	2
PRINTING RAYON FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	31120.0 0.26800 0.12300	0.0 0.00000 0.00000	2
PRINTING SILK FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	519.1 0.00447 0.00206	0.0 0.00000 0.00000	2
PRINTING WOOL FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	5133.0 0.04420 0.02030	0.0 0.00000 0.00000	2
PRINTING SYNTHETIC POLYMER FABRICS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	9837.0 0.08470 0.03900	0.0 0.00000 0.00000	2
PRODUCTION OF LEAD-ACID BATTERIES	3106.0 0.00268 0.01730	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
PROPACHLOR	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	10.2 0.00009 0.00004	0.0 0.00000 0.00000	2
PROPANIL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3.4 0.00003 0.00001	0.0 0.00000 0.00000	2
PROPAZINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	6.8 0.00006 0.00003	0.0 0.00000 0.00000	2
PROPIONIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	147.0 0.00126 0.00058	24.5 0.00003 0.00003	2
PROPYLENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	12600.0 0.11900 0.05630	5998.0 0.05160 0.02380	0.0 0.00000 0.00000	2
PROPYLENE OXIDE - CHLOROHYDRIN PROCESS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	13360.0 0.11500 0.05290	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
PROPYLENE GLYCOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	376.6 0.00324 0.00149	0.0 0.00000 0.00000	2
N-PROPYL ALCOHOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	94.2 0.00081 0.00037	0.0 0.00000 0.00000	2
PROPYLENE TETRAMER	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	313.0 0.00269 0.00124	0.0 0.00000 0.00000	2
PROPYLENE TRIMER	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	210.9 0.00182 0.00084	0.0 0.00000 0.00000	2
PYRETHINS	0.5 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.5 0.00000 0.00000	0.0 0.00000 0.00000	2
PYROGALLIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.5 0.00000 0.00000	0.0 0.00000 0.00000	2
QUINOLINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.9 0.00001 0.00000	0.0 0.00000 0.00000	2
RAYON - SEMI SYNTHETIC VISCOSE RAYON	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1217.0 0.01050 0.00482	0.0 0.00000 0.00000	2
RECLAIMING OF WASTE SOLVENTS	37230.0 0.02970 0.20700	0.0 0.00000 0.00000	0.0 0.00000 0.00000	108600.0 0.93500 0.43000	0.0 0.00000 0.00000	2
REFRACTORIES	133700.0 0.10700 0.74500	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
REFRIGERATION	--	--	--	--	--	2
REFUSE UNLOADING	7287.0 0.00581 0.04060					4
REFUSE ASH DISPOSAL	459.0 0.00037 0.00256					4

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
RESIDENTIAL INCINERATION	153600.0 0.12300 0.05700	2563.0 0.01120 0.00851	15360.0 0.14500 0.06880	76890.0 0.66200 0.30500	102500.0 0.11500 0.10500	1
RESIDENTIAL EXT COMB BITUMINOUS	8985.0 0.00717 0.05000	66520.0 0.26900 0.22100	6220.0 0.05880 0.02780	6739.0 0.05800 0.02670	29370.0 0.03290 0.03020	1
RESIDENTIAL EXT COMB ANTHRACITE	937.2 0.00075 0.00522	6901.0 0.03000 0.02290	766.8 0.00724 0.00343	1108.0 0.00953 0.00439	7072.0 0.00793 0.00726	1
RESIDENTIAL EXT COMB LISNITE	16.8 0.00001 0.00010	121.7 0.00053 0.00040	59.9 0.00057 0.00027	10.0 0.00009 0.00004	20.0 0.00002 0.00002	1
RESIDENTIAL EXT COMB DIST OIL	74330.0 0.05930 0.41400	1089000.0 4.74000 3.62000	89050.0 0.84180 0.39800	22670.0 0.19500 0.08980	57170.0 0.06170 0.03620	1
RESIDENTIAL EXT COMB GAS	47340.0 0.03780 0.26400	1361.0 0.00592 0.00452	190480.0 1.80000 0.85200	19040.0 0.16400 0.07540	49070.0 0.05500 0.05040	1
RESIDENTIAL EXT COMB WOOD	61400.0 0.04900 0.34200	1445.0 0.00629 0.00480	16610.0 0.15700 0.07430	65810.0 0.56000 0.25800	411700.0 0.46200 0.42300	1
RESORCINOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	17.1 0.00015 0.00007	0.0 0.00000 0.00000	2
ROCKET ENGINE TESTING	--	--	--	--	--	1
RONNEL	0.5 0.00000 0.00000	0.3 0.00000 0.00000	0.2 0.00000 0.00000	1.8 0.00002 0.00001	0.0 0.00000 0.00000	2
RUBBER PROCESSING	12790.0 0.01020 0.07130	0.0 0.00000 0.00000	0.0 0.00000 0.00000	58540.0 0.50400 0.23200	0.0 0.00000 0.00000	2
SACCHARIN - VIA O-TOLUENE SULFONAMIDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.7 0.00001 0.00000	0.0 0.00000 0.00000	2
SACCHARIN	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00001 0.00000	0.4 0.00000 0.00000	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING					
	PART	SO2	NOX	HC	CO	C
SALICYLIC ACID	--	--	--	--	--	2
SALICYLATES - EXCLUDING ASPIRIN	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.6 0.00001 0.00000	0.0 0.00000 0.00000	2
SAND AND GRAVEL UNLOADING	16690.0 0.01330 0.06420					4
SAW MILL WASTE STORAGE	1634.0 0.00130 0.00652					4
SCOURING WOOL FIBRES	--	--	--	--	--	2
SCREENING, CRUSHING OF CLAY	51720.0 0.04130 0.17700					4
SECONDARY LEAD SMELTING AND REFINING	3853.0 0.00307 0.02150	16870.0 0.07340 0.05600	281.2 0.00266 0.00126	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
SECONDARY ALUMINUM PRODUCTION	43950.0 0.03510 0.24500	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
SECONDARY ZINC SMELTING	3518.0 0.00281 0.01960	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
SECONDARY MAGNESIUM SMELTING	2.8 0.00000 0.00002	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
SEWAGE SLUDGE INCINERATION	13610.0 0.01090 0.07580	1134.0 0.00493 0.00376	1361.0 0.01290 0.00609	680.4 0.00586 0.00270	15880.0 0.01780 0.01630	1
SEWERAGE CHLORINATION TANKS						
SEWERAGE AERATION						
SEWERAGE TRICKLING FILTER						

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
SEWERAGE VACCUUM FILTER	0.7 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.4 0.00001 0.00001	0.0 0.00000 0.00000	2
SILVEX	1.8 0.00000 0.00001	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
SILVER COMPOUNDS - NO3, DIFLUORIDE, FLUOROBORATE, SO4	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	10.2 0.00009 0.00004	0.0 0.00000 0.00000	2
SIMAZINE	62.8 0.00005 0.00035	31.4 0.00014 0.00010	18.0 0.00017 0.00008	26.9 0.00023 0.00011	9.0 0.00001 0.00001	2
SINGEING COTTON FABRICS	0.1 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
SINGEING LINEN FABRICS	840.5 0.00067 0.00468					4
SIZING, GRINDING, FIBERIZING OF ASBESTOS	18370.0 0.01470 0.10200	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
SOAP AND DETERGENTS	2.6 0.00000 0.00001	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
SODIUM ARSENITE	960.7 0.00077 0.00535	1310.0 0.00570 0.00435	3493.0 0.03300 0.01560	87.3 0.00075 0.00035	436.7 0.00049 0.00045	3
SODIUM SILICATES	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	6.8 0.00006 0.00003	0.0 0.00000 0.00000	2
SODIUM TCA	1414.0 0.00113 0.00788	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
SODIUM CARBONATE - SYNTHETIC	7.6 0.00001 0.00004	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
SODIUM NITRITE						

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
SODIUM SULFITE	201.4 0.00016 0.00112	201.4 0.00088 0.00067	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
SODIUM HYDROSULFITE	42.3 0.00003 0.00023	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
SODIUM CARBONATE - NATURAL	8299.0 0.00662 0.04620	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
SODIUM SULFATE - NATURAL PROCESS ONLY	2310.0 0.00184 0.01290	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
SODIUM CHROMATE AND SODIUM DICHROMATE	146.7 0.00012 0.00082	66.7 0.00029 0.00022	66.7 0.00063 0.00030	0.0 0.00000 0.00000	66.7 0.00007 0.00007	3
SODIUM HYDROSULFIDE - SODIUM BISULFIDE OR SULFHYDRATE	--	--	--	--	--	3
SODIUM CHLORATE	176.0 0.00014 0.00098	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
SODIUM SULFIDE	783.8 0.00062 0.00437	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
SODIUM THIOSULFATE - SODIUM HYPOSULFITE	39.2 0.00003 0.00022	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
SODIUM TRIPOLYPHOSPHATE	5699.0 0.00455 0.03170	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
SODIUM SILICOFLUORIDE	--	--	--	--	--	3
SODIUM FLUORIDE	--	--	--	--	--	3
SOLVENT EVAPORATION - DRYCLEANING	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2166000.0 18.60000 8.58000	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
SOLVENT EVAPORATION - PRINTING AND PUBLISHING	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	182200.0 1.57000 0.72200	0.0 0.00000 0.00000	2
SOLVENT EVAPORATION - DEGREASING	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	514300.0 4.43000 2.04000	0.0 0.00000 0.00000	2
SOLVENT EVAPORATION - SURFACE COATING - AUTO PAINTING	1387.0 0.00111 0.00773	0.0 0.00000 0.00000	0.0 0.00000 0.00000	73210.0 0.63000 0.29000	0.0 0.00000 0.00000	2
SORBITOL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	26.6 0.00023 0.00010	0.0 0.00000 0.00000	2
SPINNING ASBESTOS FIBRES - TWISTING AND WINDING	65.2 0.00005 0.00036	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
SPINNING NATURAL POLYMER FIBRES	34.9 0.00003 0.00019	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
SPINNING RAYON FIBRE	139.4 0.00011 0.00078	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
SPINNING SYNTHETIC POLYMERS	2621.0 0.00209 0.01460	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
STEEL PRODUCTION	570400.0 0.45500 3.18000	0.0 0.00000 0.00000	60490.0 0.57100 0.27100	0.0 0.00000 0.00000	5154000.0 5.78000 5.29000	3
STEEL FOUNDRIES	11940.0 0.00953 0.06650	0.0 0.00000 0.00000	183.7 0.00173 0.00082	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
STORAGE OF ANIMAL RENDERINGS						
STORAGE OF ASBESTOS ORE	178.1 0.00014 0.00091					4
STORAGE OF SAWDUST	1433.0 0.00114 0.00540					4

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
STORAGE OF WOOD CHIPS	9910.0 0.00791 0.03730					4
STORAGE OF RAW CLAY	258.6 0.00021 0.00089					4
STORAGE OF TALC ORE	51.8 0.00004 0.00025					4
STORAGE OF SULFUR	39.6 0.00003 0.00017					4
STRUCTURAL FIRES	--	--	--	--	--	1
STYRENE - BUTADIENE COPOLYMER RESINS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.3 0.00000 0.00000	0.0 0.00000 0.00000	2
STYRENE	52.4 0.00004 0.00029	0.0 0.00000 0.00000	67.2 0.00063 0.00030	2203.0 0.01900 0.00873	0.0 0.00000 0.00000	2
SUGAR PROCESSING	5441.0 0.00434 0.03030	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2721.0 0.00305 0.00279	2
SULFATED ETHOXYLATES - AEOS	20.0 0.00002 0.00011	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
SULFURIC ACID	0.0 0.00000 0.00000	56560.0 0.24600 0.18800	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
SULFUR MONOCHLORIDE AND DICHLORIDE	--	--	--	--	--	3
SUPERPHOSPHATE - NORMAL	329.1 0.00026 0.00183	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
SUPERPHOSPHORIC ACID	15.7 0.00001 0.00009	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
SURFACE COATING - MAJOR APPLIANCE FINISHING	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	31390.0 0.27000 0.12400	0.0 0.00000 0.00000	2
SURFACE COATING - SMALL APPLIANCE FINISHING	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	4356.0 0.03750 0.01730	0.0 0.00000 0.00000	2
SURFACE COATING - FARM MACHINERY FINISHING	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1996.0 0.01720 0.00791	0.0 0.00000 0.00000	2
SURFACE COATING - INDUSTRIAL MACHINERY FINISHING	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	7993.0 0.06880 0.03170	0.0 0.00000 0.00000	2
SURFACE COATING - COMMERCIAL MACHINERY FINISHING	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1010.0 0.00869 0.00400	0.0 0.00000 0.00000	2
SURFACE COATING - WOOD FURNITURE FINISHING	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	8894.0 0.07660 0.03520	0.0 0.00000 0.00000	2
SURFACE COATING - SHEET, STRIP AND COIL COATING	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	506400.0 4.36000 2.01000	0.0 0.00000 0.00000	2
SURFACE COATING - METAL FURNITURE FINISHING	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	8051.0 0.06930 0.03190	0.0 0.00000 0.00000	2
SURFACE COATING - PAPER AND PAPERBOARD COATING	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	499400.0 4.30000 1.98000	0.0 0.00000 0.00000	2
SWIMMING POOL HEATING	143.6 0.00011 0.00080	4.5 0.00002 0.00002	566.8 0.00535 0.00254	60.5 0.00052 0.00024	151.2 0.00017 0.00015	1
SYM-TRIMETHYLENE-TRINITRAMINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	22.7 0.00021 0.00010	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
SYNTHETIC RUBBER PRODUCTION - EMULSION POLYMERIZATION	609.6 0.00049 0.00340	0.0 0.00000 0.00000	0.0 0.00000 0.00000	6271.0 0.05400 0.02480	0.0 0.00000 0.00000	2
SYNTHETIC RUBBER PRODUCTION - SOLUTION POLYMERIZATION	67.6 0.00005 0.00038	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3691.0 0.03180 0.01460	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
2,4,5-T SALTS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.9 0.00004 0.00002	0.0 0.00000 0.00000	2
TEPP	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.2 0.00000 0.00000	0.0 0.00000 0.00000	2
TERBACIL	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.7 0.00001 0.00000	0.0 0.00000 0.00000	2
TEREPHTHALIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	367.4 0.00316 0.00146	0.0 0.00000 0.00000	2
TETRAETHYL/TETRAMETHYL LEAD	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1188.0 0.01020 0.00471	0.0 0.00000 0.00000	2
TETRACYCLINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.0 0.00003 0.00001	0.0 0.00000 0.00000	2
TIN COMPOUNDS - HALIDES, OXIDES, SULFATES, OTHERS	1.7 0.00000 0.00001	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
TITANIUM DIOXIDE - PIGMENT	4278.0 0.00341 0.02360	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
TOBACCO	794.3 0.00063 0.00442	0.0 0.00000 0.00000	1986.0 0.01880 0.00888	39710.0 0.34200 0.15700	119100.0 0.13400 0.12200	3
TOLUENE-2, 4-DIAMINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.4 0.00000 0.00000	0.0 0.00000 0.00000	2
TOLUENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	6537.0 0.06170 0.02920	3113.0 0.02680 0.01230	0.0 0.00000 0.00000	2
TOLUENE DIISOCYANATE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1016.0 0.00875 0.00403	0.0 0.00000 0.00000	2
TOLUENE SULFONIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	4.1 0.00004 0.00002	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
TOLUENE SULFONATE - HYDROTROPE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3.6 0.00003 0.00001	0.0 0.00000 0.00000	2
TOXAPHENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	63.9 0.00055 0.00025	0.0 0.00000 0.00000	2
TOXAPHENE APPLICATION ON CROPS						
TRANSPORT OF SULFUR	63.2 0.00005 0.00028					4
TRANSPORT OF ASBESTOS ORE	118.7 0.00009 0.00061					4
TRANSPORT OF SAND AND GRAVEL	84180.0 0.06720 0.46900					4
TRANSPORT OF CLAY	2586.0 0.00206 0.00887					4
TRANSPORT OF TALC ORE	61.2 0.00005 0.00027					4
TRICHLOROETHYLENE - FROM ACETYLENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	64.3 0.00055 0.00025	0.0 0.00000 0.00000	2
1,1,2-TRICHLOROETHANE - FROM ETHYLENE DICHLORIDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	68.0 0.00059 0.00027	1.4 0.00000 0.00000	2
1,1,1-TRICHLOROETHANE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	5137.0 0.04420 0.02040	0.0 0.00000 0.00000	2
TRICHLOROETHYLENE - FROM ETHYLENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	10240.0 0.08820 0.04060	0.0 0.00000 0.00000	2
TRICHLORFON - DIPTEREX	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.3 0.00000 0.00000	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
2,4,5-TRICHLOROPHENOXY ACETIC ACID ESTERS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.5 0.00000 0.00000	0.0 0.00000 0.00000	2
TRICHLOROTRIFLUOROETHANE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	8.6 0.00007 0.00003	0.0 0.00000 0.00000	2
TRICHLOROPHENOLS	5.7 0.00000 0.00003	0.0 0.00000 0.00000	0.0 0.00000 0.00000	11.3 0.00010 0.00004	0.0 0.00000 0.00000	2
TRIETHYLAMINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	10.1 0.00009 0.00004	0.0 0.00000 0.00000	2
TRIFLURALIN	10.9 0.00001 0.00006	14.5 0.00006 0.00005	10.9 0.00010 0.00005	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
TRIMETHYLAMINE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	13.1 0.00011 0.00005	0.0 0.00000 0.00000	2
TRIPLE SUPERPHOSPHATES	338.9 0.00027 0.00169	1424.0 0.00619 0.00473	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
UNPAVED ROADS	99990000.0 79.80000 557.00000					4
UREA	1545.0 0.00123 0.00861	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
VARNISH MANUFACTURERS	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	18680.0 0.16100 0.07400	0.0 0.00000 0.00000	2
VEGETABLE OIL MILLING	6464.0 0.00516 0.03600	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3694.0 0.03180 0.01460	0.0 0.00000 0.00000	2
VERNOLATE	1.1 0.00000 0.00001	464.9 0.00202 0.00154	0.0 0.00000 0.00000	3.4 0.00003 0.00001	0.0 0.00000 0.00000	2
VINYLIDENE CHLORIDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	326.6 0.00281 0.00129	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
VINYL ACETATE - FROM ETHYLENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	12080.0 0.10400 0.04790	0.0 0.00000 0.00000	2
VINYL ACETATE - FROM ACETYLENE	32.7 0.00003 0.00018	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1198.0 0.01030 0.00475	0.0 0.00000 0.00000	2
VINYL BROMIDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	6.2 0.00005 0.00002	0.0 0.00000 0.00000	2
VINYL CHLORIDE - ACETYLENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	530.7 0.00457 0.00210	0.0 0.00000 0.00000	2
VINYL CHLORIDE - ETHYLENE DICHLORIDE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	10360.0 0.08910 0.04100	0.0 0.00000 0.00000	2
VITAMIN B COMPLEXES	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	4.4 0.00004 0.00002	0.0 0.00000 0.00000	2
VITAMIN A	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.5 0.00000 0.00000	0.0 0.00000 0.00000	2
VITREOUS KAOLIN PRODUCTS	20170.0 0.01610 0.11200	896.6 0.00390 0.00298	224.1 0.00212 0.00100	0.0 0.00000 0.00000	896.6 0.00101 0.00092	3
WET CORN MILLING	13100.0 0.01050 0.07300	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2
WIND EROSION OF SOIL FROM DORMANT LAND	2139000.0 1.71000 8.96000					4
WOOD WASTE INCINERATION	95820.0 0.07640 0.53400	9582.0 0.04170 0.03180	23960.0 0.22600 0.10700	95820.0 0.82500 0.38000	287500.0 0.32200 0.29500	1
WOOD PROCESSING - KRAFT OR SULFATE PROCESS	276000.0 0.22000 1.54000	65720.0 0.28600 0.21800	0.0 0.00000 0.00000	74150.0 0.63800 0.29400	920100.0 1.03000 0.94500	2
WOOD PROCESSING - SULFITE PROCESS	25040.0 0.02000 0.13900	405100.0 1.76000 1.54000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2

SOURCE	MASS OF EMISSIONS (1000 KG/YR) PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING PART	SO2	NOX	HC	CO	C
WOOD PROCESSING - NEUTRAL SULFITE SEMI-CHEMICAL	0.0 0.00000 0.00000	4874.0 0.02120 0.01620	0.0 0.00000 0.00000	3867.0 0.03330 0.01530	0.0 0.00000 0.00000	2
P-XYLENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	2410.0 0.02260 0.01060	1148.0 0.00988 0.00455	0.0 0.00000 0.00000	2
XYLENE SULFONIC ACID	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	8.1 0.00007 0.00003	0.0 0.00000 0.00000	2
M-XYLENE	0.0 0.00000 0.00000	36.4 0.00016 0.00012	0.0 0.00000 0.00000	363.6 0.00313 0.00144	0.0 0.00000 0.00000	2
XYLENE SULFONATE - SODIUM SALT	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	8.5 0.00007 0.00003	0.0 0.00000 0.00000	2
O-XYLENE	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	5387.0 0.04640 0.02130	0.0 0.00000 0.00000	2
XYLENE SULFONATE - AMMONIUM SALT	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	1.1 0.00001 0.00000	0.0 0.00000 0.00000	2
XYLENE SULFONATE - POTASSIUM SALT	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.9 0.00001 0.00000	0.0 0.00000 0.00000	2
ZINC OXIDE - PIGMENT	7087.0 0.00565 0.03950	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
ZINC GALVANIZING OPERATIONS	1082.0 0.00086 0.00603	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
ZINC CHROMATE - PIGMENT	0.3 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
ZINC CHLORIDE - 50 DEGREE BAUME'	32.3 0.00003 0.00018	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	0.0 0.00000 0.00000	3
ZINEB	1.6 0.00000 0.00001	650.9 0.00283 0.00216	0.0 0.00000 0.00000	4.8 0.00004 0.00002	0.0 0.00000 0.00000	2

MASS OF EMISSIONS (1000 KG/YR)
PERCENT OF TOTAL INCLUDING METALLURGICAL PROCESSING

SOURCE	PART	SO2	NOX	HC	CO	C
SUB-TOTAL SOURCE ASSESSMENT DATA BASE	123000000.0	22980000.0	10590000.0	11620000.0	89190000.0	
OPEN SOURCE WITHHELD EMISSION DATA	2328000.0					
TOTAL SOURCE ASSESSMENT DATA BASE	125300000.0	22980000.0	10590000.0	11620000.0	89190000.0	
NEDS TOTALS 1972	17950000.0	30130000.0	22360000.0	25240000.0	97340000.0	

REFERENCES

1. National Emissions Report, 1972. EPA-450/2-74-012, U.S. Environmental Protection Agency, Research Triangle Park, North Carolina. June 1974. 422 pp.